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Setting the Standard in Comprehensive Environmental Solutions



INDOOR AIR QUALITY ASSESSMENT REPORT

at

JAMES K. POLK ELEMENTARY SCHOOL

5000 Polk Ave, Alexandria, VA 22304



<u>Report Prepared for:</u> John Contreras Alexandria City Public Schools 2601 Cameron Mills Rd, Alexandria, VA 22302

Dated: October 5, 2021

TABLE OF CONTENTS

| 1 | Execu | itive Summary | 1 |
|----|--------|---|-----|
| 2 | Asses | sment Methods | 3 |
| 3 | Visual | Observations | 6 |
| 4 | Condi | tions for Human Occupancy | 8 |
| | 4.1 | Temperature | 8 |
| | 4.2 | Relative Humidity | 9 |
| | 4.3 | Carbon Dioxide | 9 |
| | 4.4 | Carbon Monoxide | 9 |
| | 4.5 | Multi-Gas | 9 |
| 5 | Mold | Sampling Results | 9 |
| 6 | Rador | n Gas Sampling Results | 10 |
| 7 | TO+1 | 5 (VOCs) Sampling Results | 11 |
| 8 | Forma | aldehyde Gas Sampling Results | 11 |
| 9 | 4-PCH | I Sampling Results | 11 |
| 10 | Multi- | Gas detector (MSA Altair Multi-gas) Readings – Oxygen, VOCs, Hydrog | jen |
| | Sulfid | e | 11 |
| 11 | Qualit | y Control Program | 14 |

APPENDICES

- Appendix A: Mold Analytical Results
- Appendix B: Radon Analytical Results
- Appendix C: VOCs (TO+15) Analytical Results
- **Appendix D:** Formaldehyde Analytical Results
- **Appendix E:** 4-PCH Analytical Results
- **Appendix F:** Sampling Locations
- Appendix G: Photographs

ABBREVIATIONS AND ACRONYMS

| AHU AIHA ASHRAE | Air-Handling Unit American Industrial Hygiene Association American Society of Heating, Refrigerating and Air-Conditioning Engineers |
|-----------------------|--|
| ASTM | American Society for Testing and Materials |
| СО | Carbon Monoxide |
| CO2 | Carbon Dioxide |
| EMLAP | Environmental Microbiology Laboratory Accreditation Program |
| HVAC | Heating, Ventilating, And Air-Conditioning |
| IAQ | Indoor Air Quality |
| NIST | National Institute for Standards and Technology |
| NVLAP | National Voluntary Laboratory Accreditation Program |
| RH | Relative Humidity |

Abbreviations involving scientific volume and measurements involving media or water sampling

- Spores/m3 Mold spores per cubic meter of air
- LPM Liters Per Minute
- **NTE** Not to exceed
- **°F** degree Fahrenheit
- PPM Parts Per Million

1. Executive Summary

Total Environmental Concepts (TEC) was contracted by Alexandria City Public Schools (ACPS) to perform Indoor Air Quality (IAQ) assessments at 19 schools. The original list is provided below:

- Alexandria City High School (AC)
- AC Satellite Campus, Central Offices (CO)
- Charles Barrett Elementary School (BC)
- Cora Kelly School for Math (CK)
- Frances C. Hammond Elementary School (FH)
- George Mason Elementary School (GM)
- George Mason Elementary School (GW)
- James K. Polk Elementary School (JP)
- John Adams Elementary School (JA)
- Lyles-Crouch Elementary School (LC)
- Minnie Howard High School (MH)
- Naomi Brooks Elementary School (NB)
- Samuel Tucker Elementary School (ST)
- William Ramsey Elementary School (WR)
- Douglas MacArthur Elementary School (Out of Service)
- Jefferson-Houston Elementary School (JH)
- Ferdinand T. Day Elementary School (FD)
- Patrick Henry K-8 School (PH)
- Mount Vernon Community School (MV)

This IAQ assessment was conducted at at James K. Polk Elementary School on Friday, August 27, 2021. ACPS required that the testing be based on the American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE) guidelines. ACPS provided site plans and fifteen (15) sampling locations per school. ACPS chose sampling locations based on internal review of facilities maintenance records and a review of facilities maintenance-related issues. These sampling locations were selected to collect representative IAQ data in these specific areas and to document any areas of potential concern observed during the site assessment. ACPS required that TEC test for the following major indoor air pollutants:

- Mold
- Radon
- TO+15 (VOCs)
- Formaldehyde
- 4-polycyclohexene (4-PCH)

In accordance with ASHRAE, TEC also took measurements of the following at each school:

- Carbon Monoxide
- Carbon Dioxide
- Humidity

- Temperature
- Oxygen

Summary of findings and recommendations during this limited IAQ investigation:

 Mold – TEC conducted site-specific mold sampling outside the James K Polk Elementary School to obtain a baseline of the number and types of fungal spores in the air. This baseline was compared to the spores collected at the sampling locations since inside spore counts above baseline could indicate internal sources of mold.

Findings:

- 1. The number of spores in the air was within acceptable ranges in all locations compared to background outside air mold spore counts.
- 2. Minor water staining was observed in several locations on ceiling tiles. No active leaks could be identified above the drop ceilings. These tiles should be replaced so that active leaking can be detected.

Photographs can be found in Section 3, Visual Observations.

Recommendations:

- Moving forward, any suspected mold growth should be inspected by a qualified professional.
- Investigate sources of water leaks and any evidence of water staining.
- Inspect above drop ceilings and replace stained ceiling tiles.
- Inspect areas around the building foundation.
- For all HVAC and associated building systems, a detailed maintenance schedule should be established and adhered to.

None of the results from the fifteen sampling locations at James K Polk Elementary School were indicative of mold issues.

- **Radon** levels recorded in all locations were less than 4pCi/L, as recommended by EPA and HUD.
- **VOCs** The levels of volatile organic compounds (VOCs) recorded at each location were within acceptable ranges compared to EPA Regional Screening Levels (RSLs).
- **Formaldehyde** the levels of formaldehyde recorded at each location were within an acceptable range, compared to EPA Regional Screening Level (RSLs) of 1ug/m3.
- **4-PCH** levels recorded during this investigation were within the LEED (Leadership of Energy and Environmental Design) IAQ guideline of 6.5 ug/m3.
- **Carbon monoxide** concentrations in all areas were less than the EPA, and ASHRAE recommended a limit of 9 ppm.
- **Carbon dioxide** concentrations in all tested spaces were less than the ASHRAE limit of 1,092 ppm.
- **RH** the relative humidity in all tested spaces was within the ASHRAE guidelines of ≤ 67% and for this investigation, ≤ 65%. None of the tested locations had a relative humidity greater than 65%.

• **Temperature** – none of the tested spaces had temperatures greater than the ASHRAE recommended summer range of 75°F-80.5°F.

3. <u>Assessment Methods</u>

Under the direction of TEC Industrial Hygienist Nikki Satari, Margaret Stanger, Victoria Powers, and Channing Jackson, also of TEC, conducted IAQ inspections and air sampling on August 26, 2021. All air samples were collected three feet to six feet from the floor level, the typical breathing zone for adults.

Mold air samples were collected with a field calibrated Environmental Monitoring Systems High Volume Sampling Pump on Allergenco-D Disposable IAQ Air Monitoring Cassettes at a flow rate of 10 liters per minute for a sample volume of 75 liters during the assessment (photograph below). The Hayes Microbial Consulting laboratory reports are included in Appendix A.



Radon gas samples were collected by securing Air Chek Radon Test Kits (photograph below). Samples were collected within the breathing zone (4-6ft from ground level) at each sample location. In accordance with Air Chek's Radon Test Kit Instructions, kits were secured to walls inside the building and away from open windows, doors to the outside, or interior air ventilation systems. The sampling time was 72 hours. Radon analytical results can be found in Appendix B.



Formaldehyde gas air samples were collected using static Aldehyde TraceAir II Monitors (photograph below). Samples were secured to surrounding testing equipment to expose the total surface area of the sampling device for the 4 hours of sampling time. Monitors were collected after 4 hours and processed for shipment to Phase Separation Science located in Catonsville, MD. Formaldehyde analytical results can be found in Appendix D.



The 4-polycyclohexene (4-PCH) samples were collected in SKC's Anasorb CSC sorbent tubes through Gilian GilAir3 Air Sampling Pumps (photograph below). Pumps were placed within the breathing zone (4-6ft from ground level). Run times were 8 hours or time-weighted 4-hour runs. 4-PCH analytical results can be found in Appendix E.



TO+15 (VOCs) samples were collected using ENTECH Instruments 1.4L SUMMA canisters with an ENTECH regulator attachment (photograph below). Canisters were deployed at each location for a run time of 8 hours or a time-weighted run time of 4 hours. Internal pressure readings were recorded at the start and end of each sample run time. TO+15 (VOCs) analytical results can be found in Appendix C.



The temperature and relative humidity were taken with the AcuRite Digital Indoor Temperature and Humidity Monitor in the lobby of each school. Temperature and relative humidity readings can be found in Section 5, Mold Sampling Results, below.

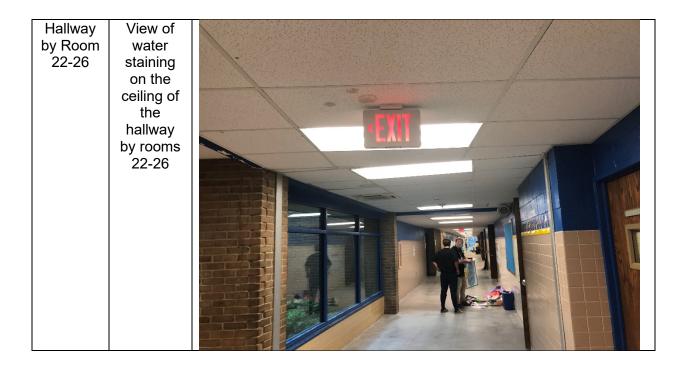
Real-time measurements for oxygen, carbon dioxide, carbon monoxide, VOC, hydrogen sulfides were taken with a Multi-gas detector. These measurements can be found in Section 10 Multi-gas Detector (MSA Altair Multi-gas) Readings. This information can be found in Table 1 below.



4. Visual Observations

| Sample Location | August 27, 2021 | Visual Observations |
|-----------------------------|--|---------------------|
| Hallway by Room 22-26 | Water staining was observed on the ceiling of the hallway by rooms 22-26. | |

| Hallway by Room 25 | View of water staining on the ceiling of the hallway by room 25. | |
|-----------------------------|--|--|
| Hallway by Room 22-26 | View of water staining on the ceiling of the hallway by rooms 22-26. | |



5. <u>Conditions for Human Occupancy</u>

Conditions for Human Occupancy are addressed in ASHRAE Standard 55-2017. These standards are designed to provide comfort for an estimated 80% of occupants. The standard provides for a temperature range between approximately 67 and 82 °F. A more specific range based on relative humidity, season, clothing worn, activity levels, and other factors can be determined. For example, the standard does not specify a lower humidity range but notes that issues of comfort, skin irritation, dry mucous membranes, and static electricity may arise when the relative humidity is less than 30%. ASHRAE Standard 62.1-2016 does recommend an upper limit of 67% humidity to avoid conditions conducive to microbial growth. For this investigation, TEC used a conservative upper limit of 65%. The recommended ASHRAE temperature range for schools and office spaces in summer is 75°F-80.5°F.

4.1 Temperature

The recommended ASHRAE temperature range for schools and office spaces in summer is 75°F-80.5°F. The recorded relative humidity in all locations was below 65%, and the average indoor temperature can be found in Table 2.

4.2 Relative Humidity

ASHRAE Standard 62.1-2016 recommends a relative humidity no greater than 67% to avoid conditions conducive to microbial growth. The relative humidity observed by TEC during this investigation was below 65% in all locations. Average relative humidity can be found in Table 2.

4.3 Carbon Dioxide

Carbon dioxide (CO2) is a by-product of combustion-burning engines such as generators, furnaces, boilers, and idling automobile engines. High CO2 measurements may indicate engine maintenance issues. There were no exceedances in real-time during the IAQ investigation. Complete results are summarized in Table 1.

4.4 Carbon Monoxide

Carbon monoxide (CO) is a by-product of the combustion of fossil fuels. Generators, furnaces, boilers, idling automobile engines may all produce CO. High CO measurements may indicate engine maintenance issues. There were no exceedances in real-time during the IAQ investigation. Complete results can be found in Table 1.

4.5 Multi-gas Detector Readings

Multi-gas readings were taken at each location to document current conditions at the time of the sampling efforts and to monitor the environment between sampling locations. There were no exceedances in real-time during the IAQ investigation. Complete results can be found in Table 1.

6. Mold Sampling Results

TEC conducted mold sampling outside to obtain a baseline spore count. This baseline was compared to inside mold spore counts at the designated sampling locations.

The number of spores in the air was within acceptable ranges in all locations compared to background outside air mold spore counts.

In conclusion, federal standards for the number of fungal spores present in the indoor environment don't exist. The widely accepted guideline in the indoor air quality field requires that the number and types of spores present in the indoor environment not exceed those present outdoors at any given time.

Mold is carried indoors through building entrances, open windows, loading docks, foot traffic into buildings, and the HVAC system. To thrive indoors, mold requires a food source, proper temperature, and humidity to foster its growth.

There will always be some mold spores present in "normal" indoor environments. The purpose of sampling and counting spores is to help determine whether an abnormal condition exists within the indoor environment and, if it does, to help pinpoint the area of contamination.

There will also be mold spores present in "normal" outdoor environments. In any environment, excess mold growth may arise due to excess moisture, and indoors this may indicate water leaks or high indoor humidity.

Interior spore counts above baseline readings may indicate internal sources of mold, and this would indicate a requirement for further investigation and potential mitigation

TEC recommends that ACPS investigate all areas where there are obvious signs of water intrusion. Care should be taken to look above drop ceilings and around the building foundation. Any hidden suspected mold should be tested and verified by a qualified professional. The mold in air results do not indicate a need for mold abatement at this time, but conditions may worsen if the issues with leaks and water intrusion are not addressed. The observed ratio anomalies are most likely caused by a combination of the normal fluctuation in daily spore counts and the issues with water intrusion.

Findings:

- 1. The number of spores in the air was within acceptable ranges in all locations compared to background outside air mold spore counts.
- 2. Minor water staining was observed in several locations on ceiling tiles. Active water intrusion could be observed due to rain during sampling.

Photographs can be found in Section 3, Visual Observations.

Recommendations:

- Moving forward, any suspected mold growth should be inspected by a qualified professional.
- Investigate sources of water leaks and any evidence of water staining.
- Inspect above drop ceilings and replace stained ceiling tiles.
- Inspect areas around the building foundation.
- For all HVAC and associated building systems, a detailed maintenance schedule should be established and adhered to.

None of the results from the fifteen sampling locations at James K Polk Elementary School were indicative of mold issues.

Mold analytical results can be found in Appendix A.

7. Radon Gas Sampling Results

Radon forms as the result of the radioactive decay of uranium. Uranium is a naturally occurring radioactive by-product that occurs when rock and soil break down. Some building materials, such as granite, maybe a source of radon. ACPS provided sampling areas, which did not allow for TEC to utilize the sampling protocol provided by Air Chek to perform a comprehensive survey. Air Chek Radon Test Kits collection times were a minimum of 72 hours. Test kits were then retrieved and shipped to Air Chek Inc., located in Mills River, NC. Air Chek laboratories are the National Institute of Standards and Technology's (NIST) National Voluntary Laboratory Accreditation Program (NVLAP), and American Industrial Hygiene Association (AIHA) for Environmental Microbial Laboratory Accreditation Program (EMLAP) certified. Analytical results can be found in Appendix B.

8. TO+15 (VOC) Sampling Results

Volatile organic compounds (VOCs) are organic chemicals emitted as gases. Carpets, flooring materials, cleaning agents, disinfectants, air fresheners, and vinyl furnishings may all be sources of VOCs in indoor air. Analytical results can be found in Appendix C.

9. Formaldehyde Gas Sampling Results

Sources of formaldehyde are similar to sources of carbon monoxide. They include gas-burning engines and space heaters. Other sources include smoking, household products, pressed wood products, and adhesives. Analytical results can be found in Appendix D.

10. 4-PCH Sampling Results

4-polycyclohexene is a common indoor air contaminant most commonly associated with " newcarpet" smell complaints. 4-PCH is a by-product of carpet manufacturing and has been associated with adverse health effects. None of the areas investigated during this study indicated elevated levels of PCH. Analytical results can be found in Appendix E.

11. Multi-Gas Detector (MSA Altair Multi-gas) Readings

Multi-gas readings were taken at each location to document current conditions at the time of the sampling efforts and to monitor the environment between sampling locations. There were no exceedances in real-time during the IAQ investigation. Multi-gas results can be found below in Table 1.

Table 1

| | Multi-G | as Detector Readings | | |
|------------------|---------|----------------------|--------|-----|
| Location | VOC | СО | OXYGEN | H2S |
| Reception Office | 0.0 | 0.0 | 20.9 | 0.0 |
| Cafeteria | 0.0 | 0.0 | 20.9 | 0.0 |
| Library | 0.0 | 0.0 | 20.9 | 0.0 |
| Gym | 0.0 | 0.0 | 20.9 | 0.0 |
| 41 | 0.0 | 0.0 | 20.9 | 0.0 |
| 50 | 0.0 | 0.0 | 20.9 | 0.0 |
| 38 | 0.0 | 0.0 | 20.9 | 0.0 |
| Hall 38 | 0.0 | 0.0 | 20.9 | 0.0 |
| 14 | 0.0 | 0.0 | 20.9 | 0.0 |
| Hall 8 | 0.0 | 0.0 | 20.9 | 0.0 |
| 1 | 0.0 | 0.0 | 20.9 | 0.0 |
| 22 | 0.0 | 0.0 | 20.9 | 0.0 |
| Multi-Purpose | 0.0 | 0.0 | 20.9 | 0.0 |
| 33 | 0.0 | 0.0 | 20.9 | 0.0 |
| Hall 52 | 0.0 | 0.0 | 20.9 | 0.0 |
| 26 | 0.0 | 0.0 | 20.9 | 0.0 |

Table 2

| | | Results of A | nalytes by Loo | cation | | |
|------------------|-----------|--------------|----------------|--------|-------|--------------|
| Location | Radon | | Iold | TO+15 | 4PCH | Formaldehyde |
| | | AVG: 77 F | AVG: 63 % | VOCs | | |
| Reception Office | < 4 pCi/L | Spore Co | unt Normal | < RSL | < 6.5 | < RSL |
| | | | | | ug/m3 | |
| Cafeteria | < 4 pCi/L | Spore Co | unt Normal | < RSL | < 6.5 | < RSL |
| | | | | | ug/m3 | |
| Library | < 4 pCi/L | Spore Co | unt Normal | < RSL | < 6.5 | < RSL |
| | | | | | ug/m3 | |
| Gym | < 4 pCi/L | Spore Co | unt Normal | < RSL | < 6.5 | < RSL |
| | | | | | ug/m3 | |
| 41 | < 4 pCi/L | Spore Co | unt Normal | < RSL | < 6.5 | < RSL |
| | | | | | ug/m3 | |
| 50 | < 4 pCi/L | Spore Co | unt Normal | < RSL | < 6.5 | < RSL |
| | | | | | ug/m3 | |
| 38 | < 4 pCi/L | Spore Co | unt Normal | < RSL | < 6.5 | < RSL |
| | | | | | ug/m3 | |
| Hall 38 | < 4 pCi/L | Spore Co | unt Normal | < RSL | < 6.5 | < RSL |
| | | | | | ug/m3 | |
| 14 | < 4 pCi/L | Spore Co | unt Normal | < RSL | < 6.5 | < RSL |
| | | | | | ug/m3 | |
| Hall 8 | < 4 pCi/L | Spore Co | unt Normal | < RSL | < 6.5 | < RSL |
| | | | | | ug/m3 | |
| 1 | < 4 pCi/L | Spore Co | unt Normal | < RSL | < 6.5 | < RSL |
| | | | | | ug/m3 | |
| 22 | < 4 pCi/L | Spore Co | unt Normal | < RSL | < 6.5 | < RSL |
| | | | | | ug/m3 | |
| Multi-Purpose | < 4 pCi/L | Spore Co | unt Normal | < RSL | < 6.5 | < RSL |
| | | | | | ug/m3 | |
| 33 | < 4 pCi/L | Spore Co | unt Normal | < RSL | < 6.5 | < RSL |
| | | | | | ug/m3 | |
| Hall 52 | < 4 pCi/L | Spore Co | unt Normal | < RSL | < 6.5 | < RSL |
| 26 | | | | | ug/m3 | |
| 26 | < 4 pCi/L | Spore Co | unt Normal | < RSL | < 6.5 | < RSL |
| | | | | | ug/m3 | |

*See Section 5 - Ratio abnormalities are most likely caused by fluctuations in daily spore counts

12. Quality Control Program

- TEC recognizes the importance of quality assurance (QA) and quality control (QC) measures related to sample collection and processing performance.
- To ensure compliance with QA/QC measures, Standard Operating Procedures (SOPs) have been developed for field sample collection techniques, field sample screening procedures, multi-media sampling, and the accurate presentation of findings/reporting.
- All staff are provided these SOPs and are trained in these procedures before conducting work activities. TEC's Program Manager and the on-site PM/QCM will manage the quality control program.
- The PM will work closely with field technicians to ensure the success of the quality control program. All team members will receive copies of and abide by the quality control plan.
- Daily records will be kept of all operations, activities, and tests performed in the quality control program.
- All samples collected during this IAQ assessment were collected, processed, and shipped under the strictest chain of custody (CoC) guidelines.
- All samples were shipped for analysis by a National Voluntary Laboratory Accreditation Program (NVLAP) accredited laboratory.

Appendix A: Mold Analytical Results



#21032407

Analysis Report prepared for

Total Environmental Concepts, Inc.

8382 Terminal Road Suite B Lorton, VA 22079

Phone: (571) 289-2173

James K. Polk

Collected: August 27, 2021 Received: August 30, 2021 Reported: August 30, 2021 We would like to thank you for trusting Hayes Microbial for your analytical needs! We received 16 samples by FedEx in good condition for this project on August 30th, 2021.

The results in this analysis pertain only to this job, collected on the stated date, and should not be used in the interpretation of any other job. This report may not be duplicated, except in full, without the written consent of Hayes Microbial Consulting, LLC..

This laboratory bears no responsibility for sample collection activities, analytical method limitations, or your use of the test results. Interpretation and use of test results are your responsibility. Any reference to health effects or interpretation of mold levels is strictly the opinion of Hayes Microbial. In no event, shall Hayes Microbial or any of its employees be liable for lost profits or any special, incidental or consequential damages arising out of the use of these test results.

plien N. Hoyces

Steve Hayes, BSMT(ASCP) Laboratory Director Hayes Microbial Consulting, LLC.



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#21032407

SOP - HMC#101

| Sample Number | 1 | JP43 | 15321 | 2 | JP431 | 5337 | 3 | JP431 | 5341 | 4 | JP431 | 5342 | | |
|------------------------|-----------|------------------------------------|-------------|-----------|--------------------------|------------------------|----------------------|--------------------------|---------------|--------------------------|------------------------|-----------|--|--|
| Sample Name | | JP 41 | | | JP SO | | JP 38 | | | JP Hall 34 | | | | |
| Sample Volume | | 75.00 liter | | | 75.00 liter | | | 75.00 liter | | | 75.00 liter | | | |
| Reporting Limit | | 13 spores/m ³ | 3 | | 13 spores/m ³ | | | 13 spores/m ³ | | 13 spores/m ³ | | | | |
| Background | | 2 | | | 2 | | | 2 | | | 2 | | | |
| Fragments | | ND | | | ND | | | ND | | | ND | | | |
| | | | | | | | | | | | | | | |
| Organism | Raw Count | Count / m ³ | % of Total | Raw Count | Count / m ³ | % of Total | Raw Count | Count / m ³ | % of Total | Raw Count | Count / m ³ | % of Tota | | |
| Alternaria | | | | | | | | | | | | | | |
| Ascospores | 3 | 40 | 100.0% | 1 | 13 | 100.0% | 2 | 27 | 66.7% | 2 | 27 | 100.0% | | |
| spergillus Penicillium | | | | | | | | | | | | | | |
| Basidiospores | | | | | | | 1 | 13 | 33.3% | | | | | |
| Bipolaris Drechslera | | | | | | | | | | | | | | |
| Chaetomium | | | | | | | | | | | | | | |
| Cladosporium | | | | | | | | | | | | | | |
| Curvularia | | | | | | | | | | | | | | |
| Epicoccum | | | | | | | | | | | | | | |
| Fusarium | | | | | | | | | | | | | | |
| Memnoniella | | | | | | | | | | | | | | |
| Myxomycetes | | | | | | | | | | | | | | |
| Pithomyces | | | | | | | | | | | | | | |
| Stachybotrys | | | | | | | | | | | | | | |
| Stemphylium | | | | | | | | | | | | | | |
| Torula | | | | | | | | | | | | | | |
| Ulocladium | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Total | 3 | 40 | 100% | 1 | 13 | 100% | 3 | 40 | 100% | 2 | 27 | 100% | | |
| Water Damage Indicato | r | Commo | on Allergen | | Slightly Higher | than Baseline | Signi | ficantly Higher | than Baseline | | Ratio Abnormal | ity | | |
| | | Collected: Aug 2 | 27, 2021 | Rece | eived: Aug 30, 2 | 021 | Reported | Aug 30, 2021 | | | | | | |
| HAY | | Project Analyst: Ramesh Poluri, | | ame | An | Date: 08 - 30 - 202 | Review 21 Steve H | ed By: layes, BSMT 🏒 | tealer 7 | 1. Hours | Date: | 0 - 2021 | | |
| MICROBIAL CO | | 3005 East Bo | | | | 00 00 202 | | | 1 | yu | - 00 50 | 2021 | | |

Karl Ford Total Environmental Concepts, Inc. 8382 Terminal Road Suite B Lorton, VA 22079

(571) 289-2173

#21032407

SOP - HMC#101

| Sample Number | 5 | JP431 | 5327 | 6 | JP431 | 5332 | 7 | JP431 | 5326 | 8 | JP431 | 5336 | |
|-------------------------|-----------|------------------------------------|------------|------------------|-------------------------------|------------------------|------------------------------------|--------------------------|---------------|--------------------------|------------------------|----------------|--|
| Sample Name | | JP 14 | | | JP Hall 8 | | | JP 1 | | | JP Outside | | |
| Sample Volume | | 75.00 liter | | | 75.00 liter | | | 75.00 liter | | | 75.00 liter | | |
| Reporting Limit | | 13 spores/m ³ | | | 13 spores/m ³ | | | 13 spores/m ³ | | 13 spores/m ³ | | | |
| Background | | 2 | | | 2 | | | 2 | | | 2 | | |
| Fragments | | ND | | | ND | | | ND | | | 13/m ³ | | |
| Organism | Raw Count | Count / m ³ | % of Total | Raw Count | Count / m ³ | % of Total | Raw Count | Count / m ³ | % of Total | Raw Count | Count / m ³ | % of Tota | |
| Alternaria | | | | | | | | | | 1 | 13 | <1% | |
| Ascospores | 1 | 13 | 100.0% | 2 | 27 | 66.7% | 1 | 13 | 25.0% | 184 | 2453 | 55.9% | |
| Aspergillus Penicillium | | | | | | | 3 | 40 | 75.0% | 3 | 40 | <19 | |
| Basidiospores | | | | 1 | 13 | 33.3% | | | | 96 | 1280 | 29.2% | |
| Bipolaris Drechslera | | | | | | | | | | | | | |
| Chaetomium | | | | | | | | | | | | | |
| Cladosporium | | | | | | | | | | 40 | 533 | 12.2% | |
| Curvularia | | | | | | | | | | | | | |
| Epicoccum | | | | | | | | | | | | | |
| Fusarium | | | | | | | | | | | | | |
| Memnoniella | | | | | | | | | | | | | |
| Myxomycetes | | | | | | | | | | 3 | 40 | <1% | |
| Pithomyces | | | | | | | | | | 2 | 27 | <1% | |
| Stachybotrys | | | | | | | | | | | | | |
| Stemphylium | | | | | | | | | | | | | |
| Torula | | | | | | | | | | | | | |
| Ulocladium | | | | | | | | | | | | | |
| Total | 1 | 13 | 100% | 3 | 40 | 100% | 4 | 53 | 100% | 329 | 4386 | 100% | |
| Water Damage Indicator | | Commo | n Allergen | | Slightly Higher than Baseline | | Significantly Higher than Baseline | | than Baseline | Ratio Abnormality | | | |
| | | Collected: Aug 2 | 27, 2021 | Rece | eived: Aug 30, 2 | 021 | Reported | Aug 30, 2021 | | | | | |
| | ES | Project Analyst: Ramesh Poluri, | PHD P. R | Came | Shy | Date: 08 - 30 - 202 | Review 21 Steve H | ed By: łayes, BSMT 🏒 | tephen 7 | 1. Hoyes | Date: |) - 2021 | |
| MICROBIAL CO | | | 1 . | ce, Suite F. Mic | - | | (804) 562-34 | - | tact@havesn | nicrobial.com | | Page: 3 | |

Karl Ford Total Environmental Concepts, Inc. 8382 Terminal Road Suite B Lorton, VA 22079

(571) 289-2173

#21032407

SOP - HMC#101

| Sample Name | | | JP4315657 | | 10 JP4315331 JP 22 | | | 11 JP4315364 JP Reception | | | 12 JP4315323 JP Multipurpose | | |
|------------------------|------------|------------------------------------|-------------|-------------|--------------------------|------------------------|-------------------|---------------------------------|---------------|--------------------------|--|-----------|--|
| | JP Library | | | | | | | | | | | | |
| Sample Volume | | 75.00 liter | | 75.00 liter | | | 75.00 liter | | | 75.00 liter | | | |
| Reporting Limit | | 13 spores/m ³ | } | | 13 spores/m ³ | | | 13 spores/m ³ | | 13 spores/m ³ | | | |
| Background | | 2 | | | 2 | | | 2 | | 2 | | | |
| Fragments | | ND | | | ND | | | ND | | | ND | | |
| Organism | Raw Count | Count / m ³ | % of Total | Raw Count | Count / m ³ | % of Total | Raw Count | Count / m ³ | % of Total | Raw Count | Count / m ³ | % of Tota | |
| Alternaria | | | | | | | | | | | | | |
| Ascospores | 1 | 13 | 100.0% | 2 | 27 | 66.7% | 2 | 27 | 40.0% | 1 | 13 | 33.3% | |
| spergillus/Penicillium | • | | 100.010 | | | | | | 10.0.0 | · · · | | | |
| Basidiospores | | | | | | | | | | | | | |
| Bipolaris Drechslera | | | | | | | | | | | | | |
| Chaetomium | | | | | | | | | | | | | |
| Cladosporium | | | | 1 | 13 | 33.3% | 2 | 27 | 40.0% | | | | |
| Curvularia | | | | | | | | | | | | | |
| Epicoccum | | | | | | | | | | | | | |
| Fusarium | | | | | | | | | | | | | |
| Memnoniella | | | | | | | | | | | | | |
| Myxomycetes | | | | | | | 1 | 13 | 20.0% | 2 | 27 | 66.79 | |
| Pithomyces | | | | | | | | | | | | | |
| Stachybotrys | | | | | | | | | | | | | |
| Stemphylium | | | | | | | | | | | | | |
| Torula | | | | | | | | | | | | | |
| Ulocladium | | | | | | | | | | | | | |
| Total | 1 | 13 | 100% | 3 | 40 | 100% | 5 | 67 | 100% | 3 | 40 | 1009 | |
| | | | | | | | | | | | | | |
| Water Damage Indicator | | Commo | on Allergen | | Slightly Higher | than Baseline | Signi | ficantly Higher | than Baseline | | Ratio Abnormal | ity | |
| | | Collected: Aug 2 | | Rece | eived: Aug 30, 2 | | | Aug 30, 2021 | A 4 | , | | | |
| | | Project Analyst: Ramesh Poluri, | | Came | /1. | Date: 08 - 30 - 202 | Review Steve H | ed By: łayes, BSMT 🏒 | tephen 7 | 1. Hoyes | Date: | 0 - 2021 | |

Karl Ford Total Environmental Concepts, Inc. 8382 Terminal Road Suite B

MICROBIAL CONSULTING

Lorton, VA 22079

#21032407

SOP - HMC#101

| Sample Number | 13 | JP431 | 5328 | 14 | JP431 | 5330 | 15 | JP431 | 5325 | 16 | JP431 | 15318 | |
|---------------------------------------|-------------|------------------------------------|------------|--------------------------|------------------------|------------------------|-------------|--------------------------|----------------|-------------------------------|------------------------|-----------|--|
| Sample Name | | JP Gym | | | JP 33 | | | JP Hall 52-53 | | | JP 26 | | |
| Sample Volume | | 75.00 liter | | | 75.00 liter | | | 75.00 liter | | | 75.00 liter | | |
| Reporting Limit | | 13 spores/m ³ | | 13 spores/m ³ | | | | 13 spores/m ³ | | 13 spores/m ³ 2 | | | |
| Background | | 2 | | | 2 | | | 2 | | | | | |
| Fragments | | ND | | | ND | | | ND | | | ND | | |
| Ormaniam | Dave Oavent | Count / m ³ | % of Total | Davis Occurat | Count / m ³ | % of Total | Dave Occurt | Count / m ³ | 9 of Total | Davis Occurat | Count / m ³ | 0 of Taba | |
| Organism | Raw Count | Count / m- | % of Total | Raw Count | | % of Total | Raw Count | | % of Total | Raw Count | Count / m- | % of Tota | |
| Alternaria | | 40 | 75.00/ | | 07 | F0.0% | | 10 | 10.5% | | F0 | 00.0% | |
| Ascospores | 3 | 40 | 75.0% | 2 | 27 | 50.0% | 1 | 13 93 | 12.5% 87.5% | 4 | 53 | 80.0% | |
| pergillus Penicillium | | | | | | | // | 93 | 87.5% | | | | |
| Basidiospores Bipolaris Drechslera | | | | | | | | | | | | | |
| Chaetomium | | | | | | | | | | | | | |
| Cladosporium | 1 | 13 | 25.0% | | | | | | | 1 | 13 | 20.0% | |
| Ciadosponum Curvularia | I | 13 | 25.0% | | | | | | | I | 13 | 20.0% | |
| Epicoccum | | | | | | | | | | | | | |
| Fusarium | | | | | | | | | | | | | |
| Memnoniella | | | | | | | | | | | | | |
| Myxomycetes | | | | 1 | 13 | 25.0% | | | | | | | |
| Pithomyces | | | | 1 | 13 | 25.0% | | | | | | | |
| Stachybotrys | | | | | 15 | 20.0 % | | | | | | | |
| Stemphylium | | | | | | | | | | | | | |
| Torula | | | | | | | | | | | | | |
| Ulocladium | | | | | | | - | | | | | | |
| | | | | | | | | | | | | | |
| Total | 4 | 53 | 100% | 4 | 53 | 100% | 8 | 106 | 100% | 5 | 66 | 100% | |
| Water Damage Indicato | r | Commo | n Allergen | | Slightly Higher | than Baseline | Signi | ficantly Higher | than Baseline | | Ratio Abnormal | ity | |
| | | Collected: Aug 2 | 27, 2021 | Rece | eived: Aug 30, 2 | 021 | Reported: | Aug 30, 2021 | | | | | |
| ТНАТ | ES | Project Analyst: Ramesh Poluri, | Pr | 2 | | Date: 08 - 30 - 202 | Reviewe | ed By: ayes, BSMT 🏒 | Halin | | Date: | 0 - 2021 | |

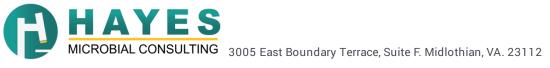
3005 East Boundary Terrace, Suite F. Midlothian, VA. 23112

(804) 562-3435

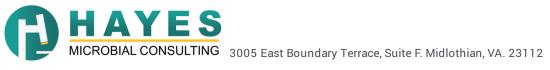
contact@hayesmicrobial.com

Page: 5 of 8

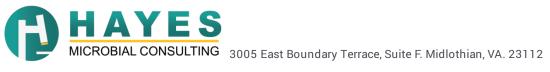
| Karl Ford Fotal Environmental Concepts 3382 Terminal Road Suite B | , Inc. James K. Polk #21032407 |
|---|--|
| orton, VA 22079 571) 289-2173 | Spore Trap Information |
| Reporting Limit | The Reporting Limit is the lowest number of spores that can be detected based on the total volume of the sample collected and the percentage of the slide that is counted. At Hayes Microbial, 100% of the slide is read so the LOD is based solely on the total volume. Raw spore counts that exceed 500 spores will be estimated. |
| Blanks | Results have not been corrected for field or laboratory blanks. |
| Background | The Background is the amount of debris that is present in the sample. This debris consists of skin cells, dirt, dust, pollen, drywall dust and other organic and non-organic matter. As the background density increases, the likelihood of spores, especially small spores such as those of Aspergillus and Penicillium may be obscured. The background is rated on a scale of 1 to 5 and each level is determined as follows: |
| | NBD: No background detected due to possible pump or cassette malfunction. Recollect sample. (Field Blanks will display NBD) 1: <5% of field occluded. No spores will be uncountable. 2: 5-25% of field occluded. 3: 25-75% of field occluded. 4: 75-90% of field occluded. 5: >90% of field occluded. |
| Fragments | Fragments are small pieces of fungal mycelium or spores. They are not identifiable as to type and when present in very large numbers, may indicate the presence of mold amplification. |
| Control Comparisons | There are no national standards for the numbers of fungal spores that may be present in the indoor environment. As a general rule and guideline that is widely accepted in the indoor air quality field, the numbers and types of spores that are present in the indoor environment should not exceed those that are present outdoors at any given time. There will always be some mold spores present in "normal" indoor environments. The purpose of sampling and counting spores is to help determine whether an abnormal condition exists within the indoor environment and if it does, to help pinpoint the area of contamination. Spore counts should not be used as the sole determining factor of mold contamination. There are many factors that can cause anomalies in the comparison of indoor and outdoor samples due to the dynamic nature of both of those environments. |
| Water Damage Indicator | Blue: These molds are commonly seen in conditions of prolonged water intrusion and usually indicate a problem. |
| Common Allergen | Green: Although all molds are potential allergens, these are the most common allergens that may be found indoors. |
| | Orange: The spore count is slightly higher than the outside count and may or may not indicate a source of contamination. |
| Slightly Higher than Baseline | Red: The spore count is significantly higher than the baseline count and probably indicates a source of contamination. |
| Significantly Higher than Baseline | Violet: The types of spores found indoors should be similar to the ones that were identified in the baseline sample. Significant increases (more than 25%) in |
| Ratio Abnormality | the ratio of a particular spore type may indicate the presence of abnormal levels of mold, even if the total number of spores of that type is lower in the indoor environment than it was outdoors. |
| Color Coding | Fungi that are present in indoor samples at levels lower than 200 per cubic meter are not color coded on the report, unless they are one of the water damage indicators. |



| Karl Ford Total Environmental Co | oncepts, l | лс. James К. Polk #21032 4 |
|--|------------|---|
| 8382 Terminal Road Suite B Lorton, VA 22079 (571) 289-2173 | | Organism Descript |
| Alternaria | Habitat: | Commonly found outdoors in soil and decaying plants. Indoors, it is commonly found on window sills and other horizontal surfaces. |
| | Effects: | A common allergen and has been associated with hypersensitivity pneumonitis. Alternaria is capable of producing toxic metabolites which may be associated with disease in humans or animals. Occasionally an agent of onychomycosis, ulcerated cutaneous infection and chronic sinusitis, principally in the immunocompromised patient. |
| Ascospores | Habitat: | A large group consisting of more than 3000 species of fungi. Common plant pathogens and outdoor numbers become very high following rain. Most of the genera are indistinguishable by spore trap analysis and are combined on the report. |
| | Effects: | Health affects are poorly studied, but many are likely to be allergenic. |
| Aspergillus Penicillium | Habitat: | The most common fungi isolated from the environment. Very common in soil and on decaying plant material. Are able to grow well indoors on a wide variety of substrates. |
| | Effects: | This group contains common allergens and many can cause hypersensitivity pneumonitis. They may cause extrinsic asthma, and many are opportunistic pathogens. Many species produce mycotoxins which may be associated with disease in humans and other animals. Toxin production is dependent on the species, the food source, competition with other organisms, and other environmental conditions. |
| Basidiospores | Habitat: | A common group of Fungi that includes the mushrooms and bracket fungi. They are saprophytes and plant pathogens. In wet conditions they can cause structural damage to buildings. |
| | Effects: | Common allergens and are also associated with hypersensitivity pneumonitis. |
| Cladosporium | Habitat: | One of the most common genera worldwide. Found in soil and plant debris and on the leaf surfaces of living plants. The outdoor numbers are lower in the winter and often relatively high in the summer, especially in high humidity. The outdoor numbers often spike in the late afternoon |
| | Effects: | and evening. Indoors, it can be found growing on textiles, wood, sheetrock, moist window sills and in HVAC supply ducts. A common allergen, producing more than 10 allergenic antigens and a common cause of hypersensitivity pneumonitis. |
| Myxomycetes | Habitat: | Found on decaying plant material and as a plant pathogen. |
| | Effects: | Some allergenic properties reported, but generally pose no health concerns to humans. |



| | ntal Concepts, Inc. | James K. Polk | #21032407 |
|---|---------------------|--|-----------------------|
| 8382 Terminal Road Suit Lorton, VA 22079 (571) 289-2173 | te B | | Organism Descriptions |
| Pithomyces | Habitat: Common f | ungus isolated from soil, decaying plant material. Rarely found indoors. | |
| | Effects: Allergenic | properties are poorly studied. No cases of infection in humans. | |
| | | | |





#21032685

Analysis Report prepared for

Total Environmental Concepts, Inc.

8382 Terminal Road Suite B Lorton, VA 22079

Phone: (571) 289-2173

ACPS IAQ Testing

Collected: August 27, 2021 Received: August 31, 2021 Reported: August 31, 2021 We would like to thank you for trusting Hayes Microbial for your analytical needs! We received 1 samples by FedEx in good condition for this project on August 31st, 2021.

The results in this analysis pertain only to this job, collected on the stated date, and should not be used in the interpretation of any other job. This report may not be duplicated, except in full, without the written consent of Hayes Microbial Consulting, LLC..

This laboratory bears no responsibility for sample collection activities, analytical method limitations, or your use of the test results. Interpretation and use of test results are your responsibility. Any reference to health effects or interpretation of mold levels is strictly the opinion of Hayes Microbial. In no event, shall Hayes Microbial or any of its employees be liable for lost profits or any special, incidental or consequential damages arising out of the use of these test results.

John N. Hoyces

Steve Hayes, BSMT(ASCP) Laboratory Director Hayes Microbial Consulting, LLC.



EPA Laboratory ID: VA01419







DPH License: #PH-0198

3005 East Boundary Terrace, Suite F. Midlothian, VA. 23112

(804) 562-3435

| Total E | ie Stanger Environmental Concepts, Inc. | ACPS IAQ Testi | ng | | #21032685 |
|---------|--|----------------|-------------------|----------------|----------------------------------|
| | minal Road Suite B /A 22079 99-2173 | | | | Direct Analysis SOP - HMC#102 |
| #1 | Swab (1.00 cm2) | | Organism | Spore Estimate | Mycelial Estimate |
| JP-1 | JP - Hall 25 | | No Fungi Detected | | |

| | Collected:Aug 27, 2021 | Received: Aug 31, 2021 | Reported: Aug 31, 20 | 021 | |
|----------------------|--|------------------------|--|----------------------------|--------------------------------|
| HAYES | Project Analyst: Steve Hayes, BSMT Stephen N. | Date: 08 - 31 - 2 | Reviewed By: 021 Ramesh Poluri, PhD | P. Romexh | Date: 08 - 31 - 2021 |
| MICROBIAL CONSULTING | 3005 East Boundary Terrace, Suite I | | | contact@hayesmicrobial.com | Page: 2 of 3 |

Direct Analysis Information

| Spore Estimate | | Percentages |
|----------------|-------------------------|-------------|
| ND | None Detected | 0% |
| Rare | Less than 10 spores | < 1% |
| Light | 10 - 99 spores | 1-10% |
| Moderate | 100 - 999 spores | 11-25% |
| Heavy | 1000 - 9999 spores | 26-50% |
| Very Heavy | 10000 or greater spores | 51-100% |

| Mycelial Estimate | | |
|-------------------|--|--|
| ND | None Detected No active growth at site. | |
| Trace | Very small amount of Mycelium Probably no active growth at site. | |
| Few | Some Mycelium Possible active growth at site. | |
| Many | Large amount of Mycelium Probable active growth at site. | |



| | TU ISCU | 1 | Pump Start Time | Pump End Time |
|---|--------------|---|-----------------|---------------|
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 1 10 | | | 1609 |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 1 UP | | 1632 | 1639 |
| 4315327 JP 14 4315326 JP 1015ide 1649 4315326 JP 0015ide 1559 4315328 JP 22 4315328 JP 22 431528 JP 22 431528 JP 22 431528 JP 22 431528 JP 22 431528 JP 22 431528 | JP hai | | 1621 | 1428 |
| 4315326 JP hell 8 4315326 JP COLECIDE 1 4315326 JP COLECIDE 1 4315328 JP 22 4315328 JP 22 4315328 JP 22 4315328 JP 22 4315328 JP Action 4315328 JP Action 43 | JP 14 | |) le LO | 1647 |
| 4315326 JP I <td< td=""><td>5332 JP hall</td><td></td><td>1649</td><td>1656</td></td<> | 5332 JP hall | | 1649 | 1656 |
| 4315336 JP Barry 4315364 JP Barry 4315323 JP Barry 4315323 JP Barry 4315325 JP Multipurpose 4315318 JP 2.6 4315318 JP 2.6 4315318 JP 2.6 | 315326 JP 1 | | 1657 | 1704 |
| 431531 JP 22 431532 JP 22 431532 JP multipurpose 431532 JP multipurpose 431532 JP multipurpose 431531 JP 26 431531 JP 26 4 | D | | 1559 | 1607 |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | D | | 1703 | 171 |
| 1215323 12 multipurpose 1623 1315323 12 12 1641 1315323 12 1641 1623 1315323 12 1641 1623 1315323 12 1641 1623 1315323 12 1641 1623 1315323 12 1641 1623 1315323 12 1641 1623 14315323 12 1641 1623 14315313 12 1641 1657 165313 14 1657 1657 165313 14 1657 1657 165313 16 1657 1657 1657 1657 1657 1657 1657 1657 1657 1657 1657 1657 1657 1657 1657 1657 1657 1657 1657 1657 1657 1657 1657 1657 1657 1657 1657 1657 1657 1657 1657 < | J P | | 1706 | 1113 |
| 4315323 UP multipurpose 4315323 UP gum 4315325 UP hall 5253 4315325 UP hall 5253 14 2 le 4315318 UP 2 le 4315318 UP 2 le 1641 1641 1641 1641 1641 1641 | 1 JPY | | 1602 | 1604 |
| 4315328 UP Gymn 4315325 UP hall 5253 4315318 UP 26 4315318 UP 26 4515318 UP 26 1641 1641 1641 1641 | 222 JP | | Stall | 1624 |
| 4315330 UY 33 4315325 UP hall 5253 4515318 UP 76 1641 1657 1657 | 215328 JP | | 1628 | 1655 |
| 4315325 UP half 5253 | 1 5330 UY | | 1041 | 1001 |
| | UP halls | | 1 Le LIH | 159 |
| | JP 2 | | 1657 | - 01 |
| | | | | |
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Appendix B: Radon Analytical Results

| September 2, 2021 ** LABORATORY | ANALYSIS REPORT ** Pg 1 of 4 | | | |
|---|--|--|--|--|
| Attention: P8184 / LEILA DEAN / TOTAL ENVIRONMENTAL CONCEPTS | | | | |
| Kit #: 9723769 Result: < 0.3 pCi/l Location: mul +l purpos e - 2 Jp | Analysis Note : Analyzed : 2021-09-02 at 10:00 am Started : 2021-08-27 at 5:00 pm Ended : 2021-08-31 at 3:00 pm Hours/MST% : 94 hours 19.3% 70°F | | | |
| Kit #: 9723777 Result: < 0.3 pCi/l Location: ۲۵۲۲۸ – ۱ Jp | Analysis Note : Analyzed : 2021-09-02 at 10:00 am Started : 2021-08-27 at 5:00 pm Ended : 2021-08-31 at 3:00 pm Hours/MST% : 94 hours 11.0% 70°F | | | |
| Kit #: 9723778 Result: < 0.3 pCi/l Location: Hall ろろ-ろこ Jp | Analysis Note : Analyzed : 2021-09-02 at 10:00 am Started : 2021-08-27 at 5:00 pm Ended : 2021-08-31 at 3:00 pm Hours/MST% : 94 hours 17.6% 70°F | | | |
| Kit #: 9723784 Result: < 0.3 pCi/l Location: $C 1955 50$ | Analysis Note : Analyzed : 2021-09-02 at 10:00 am Started : 2021-08-27 at 5:00 pm Ended : 2021-08-31 at 3:00 pm Hours/MST% : 94 hours 13.7% 70°F | | | |
| Kit #: 9723785 Result: < 0.3 pCi/l Location: c1ass 22/Band Jp | Analysis Note : Analyzed : 2021-09-02 at 10:00 am Started : 2021-08-27 at 4:00 pm Ended : 2021-08-31 at 3:00 pm Hours/MST% : 95 hours 16.8% 70°F | | | |
| Kit #: 9723786 Result: < 0.3 pCi/l Location: | Analysis Note : Analyzed : 2021-09-02 at 10:00 am Started : 2021-08-27 at 4:00 pm Ended : 2021-08-31 at 3:00 pm Hours/MST% : 95 hours 16.7% 70°F | | | |

| September 2, 2021 | ** LABORATORY | ANALYSIS REPORT ** | Pg 2 of 4 |
|--|---------------------|--------------------|--------------------------------------|
| Attention: P8184 / LEILA DE | EAN / TOTAL ENVIRON | MENTAL CONCEPTS | |
| Kit #: 9723789 Result: Location: Class 41 Jp | < 0.3 pCi/l | | 08-27 at 5:00 pm 08-31 at 3:00 pm |
| Kit #: 9723790 Result: Location: multi purpose Jp | < 0.3 pCi/l - 1 | | 08-27 at 5:00 pm 08-31 at 3:00 pm |
| Kit #: 9723791 Result: Location: Class 2.6 Jp | < 0.3 pCi/l | | 08-27 at 4:00 pm 08-31 at 3:00 pm |
| Kit #: 9723792 Result: Location: Library -2 Jp | < 0.3 pCi/l | | 08-27 at 4:00 pm 08-31 at 3:00 pm |
| Kit #: 9723793 Result: Location: Library - B Jp | < 0.3 pCi/l | | 08-27 at 4:00 pm 08-31 at 3:00 pm |
| Kit #: 9723794 Result: Location: Library - D Jp , | < 0.3 pCi/l | | 08-27 at 4:00 pm 08-31 at 3:00 pm |

| September 2, 2021 ** LABORATORY ANALY | SIS REPORT ** Pg 3 of 4 | | | |
|---|--|--|--|--|
| Attention: P8184 / LEILA DEAN / TOTAL ENVIRONMENTAL CONCEPTS | | | | |
| Kit #: 9723795 Result: < 0.3 pCi/l Location: Hall 8-9 Jp | Analysis Note : Analyzed : 2021-09-02 at 10:00 am Started : 2021-08-27 at 4:00 pm Ended : 2021-08-31 at 3:00 pm Hours/MST% : 95 hours 15.3% 70°F | | | |
| Kit #: 9723796 Result: < 0.3 pCi/l Location: $Reception$ | Analysis Note : Analyzed : 2021-09-02 at 10:00 am Started : 2021-08-27 at 4:00 pm Ended : 2021-08-31 at 3:00 pm Hours/MST% : 95 hours 19.6% 70°F | | | |
| Kit #: 9723797 Result: < 0.3 pCi/l Location: Library-1 Jp | Analysis Note : Analyzed : 2021-09-02 at 10:00 am Started : 2021-08-27 at 4:00 pm Ended : 2021-08-31 at 3:00 pm Hours/MST% : 95 hours 15.6% 70°F | | | |
| Kit #: 9723798 Result: < 0.3 pCi/l Location: Class \ Jp | Analysis Note : Analyzed : 2021-09-02 at 10:00 am Started : 2021-08-27 at 4:00 pm Ended : 2021-08-31 at 3:00 pm Hours/MST% : 95 hours 16.1% 70°F | | | |
| Kit #: 9723799 Result: < 0.3 pCi/l Location: c1ass 14 Jp | Analysis Note : Analyzed : 2021-09-02 at 10:00 am Started : 2021-08-27 at 4:00 pm Ended : 2021-08-31 at 3:00 pm Hours/MST% : 95 hours 18.1% 70°F | | | |
| Kit #: 9723800 Result: < 0.3 pCi/l Location: 644m - 2 Jp | Analysis Note : Analyzed : 2021-09-02 at 10:00 am Started : 2021-08-27 at 5:00 pm Ended : 2021-08-31 at 3:00 pm Hours/MST% : 94 hours 11.1% 70°F | | | |

Attention: P8184 / LEILA DEAN / TOTAL ENVIRONMENTAL CONCEPTS

Kit #: 9723862 Result: < 0.3 pCi/l Location: \all 34

Jp

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Analysis Note : Analyzed : 2021-09-02 at 10:00 am Started : 2021-08-27 at 5:00 pm Ended : 2021-08-31 at 3:00 pm Hours/MST% : 94 hours 15.9% 70°F

Kit #: 9723892 Result: ???? Location: C\ass 3 8

Jp

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Started : 2021-08-27 at 5:00 pm Ended : 2021-08-31 at 3:00 pm Hours/MST% : 94 hours 21.5% 70°F

Analyzed : 2021-09-02 at 10:00 am

Analysis Note : WI

| | | | | | Comment | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------|---------|----------------|---------------------------|--------------|----------------|--------------|--------------|---------------|------|--------------|------------|---------------|---------------|------------------|---------------|-------------|---------------|---------------|-------------------------|-------------------|------------|------------|------------|-----------------|---------------|--------------|--|--|--|---|--|
| H: 63 | 27 | Pickup Tech | Pickup Date Email | | Time out | | | | | | | | | | | | | | | | | | | - | | | | | | | |
| 、ユ | N- | | | | Time in | 3:56 | 4:00 | 4:00 | 4.00 | 4:00 | 11:4 | 4:13 | 4. 18 | 41.25 | 4:33 | 4:38 | 1 | 91:5 | 4:57 | 4:57 | 5:05 | 5:05 | 5:22 | 5:30 | 5,30 | 5:32 | | | | | |
| | 1 | Hoper | | | Fan Y/N | 2 | S | 2 | R | N | 2 | Ν | 2 | N | N | N | 1 | 2 | 2 | 8 | 2 | 2 | S | 2 | 2 | N | | | | | |
| \$ | P011 | | Sample Media | | Window Y/N | 2 | X | | > | ٢ | ٢ | Y | ٢ | ٢ | ٢ | ٢ | 1 | 2 | ٨. | ~ | ٢ | 2 | N | 2 | R | ٢ | | | | | |
| | SK | | | | HVAC Y/N | - | ~ : | >- | 27 | - | ٢ | ۲ | ىر | 5 | ىر | 2. | 1 | -ر | 7 | 7 | ر | 2 | ٢ | ٢ | ٢ | 3 | | | | | |
| | James K | Maggies | 1711710 | | SQFT >2000 | | | | | | | | | | | | (| - | | | | | * | | | | | | | | |
| | | Placement Tech | Placement Date Address | 19 (July 10) | Location/ room | JP-Keception | JP-Library-1 | 28-L. Orang B | | JP-Library D | JP-C1955 1 | JP - Hall 8-9 | JP - class 14 | JP-Class 22 Band | JP- C19 55 26 | 3P-C1955 33 | | JP-Hall 33-32 | JP - Onutri - Durpose (| 3P-MULLi-PULPOSE2 | 5P-GYM-1 | JP-GYM-2 | JP- Halish | 2P - a class 38 | JP - Cla 5541 | JP- CLASS 50 | | | | | |
| | | Total | Environmental | | Sample # | 12112119 | 7975555 C | 3841237938 | | J 44123749 D | 329723798 | JP9123795 | 30 9723 799 | JP 9723785 | 30 9723791 | JP 1123786 | BARD BUR LOGA | JP 9723778 | 599723790 | JP9723769 | JP 9723777 | JP 9723800 | 309723862 | JP 9723892 | 39 9723 789 | 389723784 | | | | × | |

Appendix C: VOCs (TO+15) Analytical Results



Project Name: ACPS IAQ testing PSS Project No.: 21091322

September 22, 2021

Karl Ford Total Environmental Concepts - Lorton 8382 Terminal Road, Suite B Lorton, VA 22079

Reference: PSS Project No: **21091322** Project Name: ACPS IAQ testing Project Location: James K. Polk ES Project ID.: 4920002

Dear Karl Ford:



www.phaseonline.com



This report includes the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Phase Separation Science (PSS) Project number(s) **21091322**.

Certificate of Analysis

All work reported herein has been performed in accordance with current NELAP standards, referenced methodologies, PSS Standard Operating Procedures and the PSS Quality Assurance Manual unless otherwise noted in the Case Narrative Summary. PSS is limited in liability to the actual cost of the sample analysis done.

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on October 18, 2021, with the exception of air canisters which are cleaned immediately following analysis. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt, the request will be acknowledged by PSS, thus extending the storage period.

This report shall not be reproduced except in full, without the written approval of an authorized PSS representative. A copy of this report will be retained by PSS for at least 5 years, after which time it will be disposed of without further notice, unless prior arrangements have been made.

We thank you for selecting Phase Separation Science, Inc. to serve your analytical needs. If you have any questions concerning this report, do not hesitate to contact us at 410-747-8770 or info@phaseonline.com.

Sincerely,

Dan Prucnal

Laboratory Manager





Project Name: ACPS IAQ testing PSS Project No.: 21091322

Project ID: 4920002

The following samples were received under chain of custody by Phase Separation Science (PSS) on 09/13/2021 at 12:44 pm

| PSS Sample ID | Sample ID | Matrix | Date/Time Collected | |
|---------------|--------------------|--------|---------------------|--|
| 21091322-001 | JP - 50 Class | AIR | 09/09/21 18:50 | |
| 21091322-002 | JP - 41 Class | AIR | 09/09/21 18:54 | |
| 21091322-003 | JP - 38 Class | AIR | 09/09/21 18:57 | |
| 21091322-004 | JP - 35 Hall | AIR | 09/09/21 18:59 | |
| 21091322-005 | JP - Reception | AIR | 09/09/21 19:04 | |
| 21091322-006 | JP - 53 Hall | AIR | 09/09/21 19:09 | |
| 21091322-007 | JP - 33 Class | AIR | 09/09/21 19:13 | |
| 21091322-008 | JP - 26 Class | AIR | 09/09/21 19:16 | |
| 21091322-009 | JP - Multi Purpose | AIR | 09/09/21 19:20 | |
| 21091322-010 | JP - Gym | AIR | 09/09/21 19:24 | |
| 21091322-011 | JP - 22 Band | AIR | 09/09/21 19:04 | |
| 21091322-012 | JP - Library | AIR | 09/09/21 19:07 | |
| 21091322-013 | JP - Room 14 | AIR | 09/09/21 19:11 | |
| 21091322-014 | JP - Room 1 | AIR | 09/09/21 19:18 | |
| 21091322-015 | JP - Outdoor | AIR | 09/09/21 19:21 | |

Please reference the Chain of Custody and Sample Receipt Checklist for specific container counts and preservatives. Any sample conditions not in compliance with sample acceptance criteria are described in Case Narrative Summary.

Notes:

- 1. The presence of a common laboratory contaminant such as methylene chloride may be considered a possible laboratory artifact. Where observed, appropriate consideration of data should be taken.
- 2. Unless otherwise noted in the case narrative, results are reported on a dry weight basis with the exception of pH, flashpoint, moisture, and paint filter test.
- 3. Drinking water samples collected for the purpose of compliance with SDWA may not be suitable for their intended use unless collected by a certified sampler [COMAR 26.08.05.07.C.2].
- 4. The analyses of 1,2-dibromo-3-chloropropane (DBCP) and 1,2-dibromoethane (EDB) by EPA 524.2 and calcium, magnesium, sodium and iron by EPA 200.8 are not currently promulgated for use in testing to meet the Safe Drinking Water Act and as such cannot be used for compliance purposes. The listings of the current promulgated methods for testing in compliance with the Safe Drinking Water Act can be found in the 40 CFR part 141.1, for the primary drinking water contaminates, and part 141.3, for the secondary drinking water contaminates.
- 5. Sample prepared under EPA 3550C with concentrations greater than 20 mg/Kg should employ the microtip extraction procedure if required to meet data quality objectives.
- 6. The analysis of acrolein by EPA 624 must be analyzed within three days of sampling unless pH is adjusted to 4-5 units [40 CFR part 136.3(e)].

7. Method 180.1, The Determination of Turbidity by Nephelometry, recommends samples over 40 NTU be diluted until the turbidity falls below 40 units. Routine samples over 40 NTU may not be diluted as long as the data quality objectives are not affected.

8. Alkalinity results analyzed by EPA 310.2 that are reported by dilution are estimated and are not in compliance with method requirements.



Explanation of Qualifiers

SCIENCE

Project Name: ACPS IAQ testing

PSS Project No.: 21091322

Standard Flags/Abbreviations:

- В A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- С Results Pending Final Confirmation.
- Е The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- The result exceeds the regulatory level for Toxicity Characteristic (TCLP) as cited in 40 CFR 261.24 Table 1. Fail
- J The target analyte was positively identified below the reporting limit but greater than the MDL.
- MDL This is the Laboratory Method Detection Limit which is equivalent to the Limit of Detection (LOD). The LOD is an estimate of the minimum amount of a substance that an analytical process can reliably detect. This value will remain constant across multiple similar instrumentation and among different analysts. An LOD is analyte and matrix specific.
- ND Not Detected at or above the reporting limit.
- PSS Reporting Limit. RL
- U Not detected.

Certifications:

NELAP Certifications: PA 68-03330, VA 460156 State Certifications: MD 179, WV 303 Regulated Soil Permit: P330-12-00268 NSWC USCG Accepted Laboratory LDBE MWAA LD1997-0041-2015





1500 Caton Center Dr Suite G Baltimore MD 21227 410-247-7600 www.mdspectral.com VELAP ID 460040

21 September 2021

Amber Confer Phase Separation Science, Inc. 6630 Baltimore National Pike, Route 40 West Baltimore, MD 21228 RE: 4920002

Enclosed are the results of analyses for samples received by the laboratory on 09/14/21 14:07.

Maryland Spectral Services, Inc. is a TNI 2009 Standard accredited laboratory and as such, all analyses performed at Maryland Spectral Services included in this report are 2009 TNI certified except as indicated at the end of this report. Please visit our website at www.mdspectral.com for a complete listing of our TNI 2009 Standard accreditations.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

UlliBengto

Will Brewington President

Maryland **spectral** Services

Project: 4920002

Analytical Results

Analytical Chemistry Services



1500 Caton Center Dr Suite G Baltimore MD 21227 410-247-7600 www.mdspectral.com

Reported: 09/21/21 10:46

Project Number: [none] Project Manager: Amber Confer

| Client Sample ID | Alternate Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|------------------|---------------------|---------------|--------|----------------|----------------|
| JP-50 CLASS | 21091322-001 | 1091424-01 | Vapor | 09/09/21 18:50 | 09/14/21 14:07 |
| JP-41 CLASS | 21091322-002 | 1091424-02 | Vapor | 09/09/21 18:54 | 09/14/21 14:07 |
| JP-38 CLASS | 21091322-003 | 1091424-03 | Vapor | 09/09/21 18:57 | 09/14/21 14:07 |
| JP-35 HALL | 21091322-004 | 1091424-04 | Vapor | 09/09/21 18:59 | 09/14/21 14:07 |
| JP-RECEPTION | 21091322-005 | 1091424-05 | Vapor | 09/09/21 19:04 | 09/14/21 14:07 |
| JP-53 HALL | 21091322-006 | 1091424-06 | Vapor | 09/09/21 19:09 | 09/14/21 14:07 |
| JP-33 CLASS | 21091322-007 | 1091424-07 | Vapor | 09/09/21 19:13 | 09/14/21 14:07 |
| JP-26 CLASS | 21091322-008 | 1091424-08 | Vapor | 09/09/21 19:16 | 09/14/21 14:07 |
| JP-MULTI PURPOSE | 21091322-009 | 1091424-09 | Vapor | 09/09/21 19:20 | 09/14/21 14:07 |
| JP-GYM | 21091322-010 | 1091424-10 | Vapor | 09/09/21 19:24 | 09/14/21 14:07 |
| JP-22 BAND | 21091322-011 | 1091424-11 | Vapor | 09/09/21 19:04 | 09/14/21 14:07 |
| JP-LIBRARY | 21091322-012 | 1091424-12 | Vapor | 09/09/21 19:07 | 09/14/21 14:07 |
| JP-ROOM 14 | 21091322-013 | 1091424-13 | Vapor | 09/09/21 19:11 | 09/14/21 14:07 |
| JP-ROOM 1 | 21091322-014 | 1091424-14 | Vapor | 09/09/21 19:18 | 09/14/21 14:07 |
| JP-OUTDOOR | 21091322-015 | 1091424-15 | Vapor | 09/09/21 19:21 | 09/14/21 14:07 |

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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Will Brewington, President All analyses performed at Maryland Spectral Services included in the report are TNI certified except as indicated at the end of the report

Page 5 of 43

Version 1.000

Page 2 of 36

Maryland **spectral** Services



Project: 4920002

Project Number: [none] Project Manager: Amber Confer 1500 Caton Center Dr Suite G Baltimore MD 21227 410-247-7600 www.mdspectral.com

Reported:

09/21/21 10:46

JP-50 CLASS 21091322-001 1091424-01 (Vapor) Sample Date: 09/09/21

| | | | | Reporting | Detection | | | | |
|--------------------------------|-------------|----------|---------|-------------|-------------|----------|----------|----------------|---------|
| Analyte | Result | Notes | Units | Limit (MRL) | Limit (LOD) | Dilution | Prepared | Analyzed | Analyst |
| Volatile Organics by EPA TO-15 | (GC/MS) Pre | pared by | TO-15 F | rep | | | | | |
| Acetone | 43.4 | | ug/m³ | 2.40 | 2.40 | 1 | 09/17/21 | 09/18/21 03:12 | СМК |
| Benzene | 0.38 | J | ug/m³ | 0.64 | 0.16 | 1 | 09/17/21 | 09/18/21 03:12 | CMK |
| Benzyl chloride | ND | | ug/m³ | 1.00 | 0.25 | 1 | 09/17/21 | 09/18/21 03:12 | CMK |
| Bromodichloromethane | ND | | ug/m³ | 1.30 | 0.33 | 1 | 09/17/21 | 09/18/21 03:12 | CMK |
| Bromoform | ND | | ug/m³ | 2.10 | 0.53 | 1 | 09/17/21 | 09/18/21 03:12 | CMK |
| Bromomethane | ND | | ug/m³ | 0.78 | 0.20 | 1 | 09/17/21 | 09/18/21 03:12 | CMK |
| 1,3-Butadiene | ND | | ug/m³ | 0.44 | 0.44 | 1 | 09/17/21 | 09/18/21 03:12 | CMK |
| Carbon disulfide | ND | | ug/m³ | 1.56 | 1.56 | 1 | 09/17/21 | 09/18/21 03:12 | CMK |
| Carbon tetrachloride | 0.44 | J | ug/m³ | 1.30 | 0.33 | 1 | 09/17/21 | 09/18/21 03:12 | CMK |
| Chlorobenzene | ND | | ug/m³ | 0.92 | 0.23 | 1 | 09/17/21 | 09/18/21 03:12 | CMK |
| Chloroethane | ND | | ug/m³ | 0.53 | 0.27 | 1 | 09/17/21 | 09/18/21 03:12 | СМК |
| Chloroform | 2.25 | | ug/m³ | 0.97 | 0.24 | 1 | 09/17/21 | 09/18/21 03:12 | CMK |
| Chloromethane | 1.18 | | ug/m³ | 0.41 | 0.10 | 1 | 09/17/21 | 09/18/21 03:12 | CMK |
| 3-Chloropropene | ND | | ug/m³ | 0.63 | 0.16 | 1 | 09/17/21 | 09/18/21 03:12 | CMK |
| Cyclohexane | ND | | ug/m³ | 0.69 | 0.17 | 1 | 09/17/21 | 09/18/21 03:12 | CMK |
| Dibromochloromethane | ND | | ug/m³ | 1.30 | 0.33 | 1 | 09/17/21 | 09/18/21 03:12 | CMK |
| 1,2-Dibromoethane (EDB) | ND | | ug/m³ | 1.40 | 0.35 | 1 | 09/17/21 | 09/18/21 03:12 | CMK |
| 1,2-Dichlorobenzene | ND | | ug/m³ | 1.20 | 0.30 | 1 | 09/17/21 | 09/18/21 03:12 | CMK |
| 1,3-Dichlorobenzene | ND | | ug/m³ | 1.20 | 0.30 | 1 | 09/17/21 | 09/18/21 03:12 | CMK |
| 1,4-Dichlorobenzene | 0.36 | J | ug/m³ | 1.20 | 0.30 | 1 | 09/17/21 | 09/18/21 03:12 | CMK |
| Dichlorodifluoromethane | 2.03 | | ug/m³ | 0.99 | 0.99 | 1 | 09/17/21 | 09/18/21 03:12 | CMK |
| 1,1-Dichloroethane | ND | | ug/m³ | 0.81 | 0.20 | 1 | 09/17/21 | 09/18/21 03:12 | CMK |
| 1,2-Dichloroethane | ND | | ug/m³ | 0.81 | 0.20 | 1 | 09/17/21 | 09/18/21 03:12 | CMK |
| 1,1-Dichloroethene | ND | | ug/m³ | 0.79 | 0.20 | 1 | 09/17/21 | 09/18/21 03:12 | CMK |
| cis-1,2-Dichloroethene | ND | | ug/m³ | 0.79 | 0.20 | 1 | 09/17/21 | 09/18/21 03:12 | CMK |
| trans-1,2-Dichloroethene | ND | | ug/m³ | 0.79 | 0.20 | 1 | 09/17/21 | 09/18/21 03:12 | CMK |
| 1,2-Dichloropropane | ND | | ug/m³ | 0.92 | 0.23 | 1 | 09/17/21 | 09/18/21 03:12 | CMK |
| cis-1,3-Dichloropropene | ND | | ug/m³ | 0.91 | 0.23 | 1 | 09/17/21 | 09/18/21 03:12 | СМК |
| trans-1,3-Dichloropropene | ND | | ug/m³ | 0.91 | 0.23 | 1 | 09/17/21 | 09/18/21 03:12 | СМК |
| 1,4-Dioxane | ND | | ug/m³ | 0.72 | 0.18 | 1 | 09/17/21 | 09/18/21 03:12 | СМК |
| Ethyl acetate | ND | | ug/m³ | 3.60 | 3.60 | 1 | 09/17/21 | 09/18/21 03:12 | CMK |
| Ethylbenzene | 0.39 | J | ug/m³ | 0.87 | 0.22 | 1 | 09/17/21 | 09/18/21 03:12 | CMK |
| 4-Ethyltoluene | 0.25 | J | ug/m³ | 0.98 | 0.25 | 1 | 09/17/21 | 09/18/21 03:12 | СМК |
| Freon 113 | 0.54 | J | ug/m³ | 1.50 | 0.38 | 1 | 09/17/21 | 09/18/21 03:12 | CMK |

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The results in this report apply to the samples analyzed in accordance with the chain of

 $custody\ document.\ This\ analytical\ report\ must\ be\ reproduced\ in\ its\ entirety.$

Will Brewington, President

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Page 6 of 43

Maryland **spectral** Services



Project: 4920002

Project Number: [none] Project Manager: Amber Confer 1500 Caton Center Dr Suite G Baltimore MD 21227 410-247-7600 www.mdspectral.com

Reported:

09/21/21 10:46

JP-50 CLASS 21091322-001 1091424-01 (Vapor) Sample Date: 09/09/21

| | | | | Reporting | Detection | | | | |
|-----------------------------------|----------|-----------|-----------|-----------------|-------------|----------|----------------|----------------|---------|
| Analyte | Result | Notes | Units | Limit (MRL) | Limit (LOD) | Dilution | Prepared | Analyzed | Analyst |
| Volatile Organics by EPA TO-15 (G | C/MS) Pi | repared b | y TO-15 P | rep (continued) | | | | | |
| Freon 114 | ND | | ug/m³ | 1.40 | 1.40 | 1 | 09/17/21 | 09/18/21 03:12 | CMK |
| n-Heptane | 1.39 | | ug/m³ | 0.82 | 0.21 | 1 | 09/17/21 | 09/18/21 03:12 | CMK |
| Hexachlorobutadiene | ND | | ug/m³ | 2.10 | 2.10 | 1 | 09/17/21 | 09/18/21 03:12 | CMK |
| Hexane | ND | | ug/m³ | 14.0 | 14.0 | 1 | 09/17/21 | 09/18/21 03:12 | CMK |
| 2-Hexanone | 0.33 | J | ug/m³ | 0.82 | 0.15 | 1 | 09/17/21 | 09/18/21 03:12 | CMK |
| Isopropylbenzene (Cumene) | ND | | ug/m³ | 1.10 | 0.40 | 1 | 09/17/21 | 09/18/21 03:12 | CMK |
| Methyl tert-butyl ether (MTBE) | ND | | ug/m³ | 0.72 | 0.21 | 1 | 09/17/21 | 09/18/21 03:12 | CMK |
| Methylene chloride | ND | | ug/m³ | 18.0 | 18.0 | 1 | 09/17/21 | 09/18/21 03:12 | CMK |
| Methyl ethyl ketone (2-Butanone) | 2.01 | | ug/m³ | 0.59 | 0.34 | 1 | 09/17/21 | 09/18/21 03:12 | CMK |
| Methyl isobutyl ketone | ND | | ug/m³ | 0.82 | 0.82 | 1 | 09/17/21 | 09/18/21 03:12 | CMK |
| Naphthalene | 2.83 | | ug/m³ | 1.10 | 0.70 | 1 | 09/17/21 | 09/18/21 03:12 | CMK |
| Propene | ND | | ug/m³ | 0.34 | 0.34 | 1 | 09/17/21 | 09/18/21 03:12 | CMK |
| n-Propylbenzene | ND | | ug/m³ | 0.98 | 0.40 | 1 | 09/17/21 | 09/18/21 03:12 | CMK |
| Styrene | 0.72 | J | ug/m³ | 0.85 | 0.15 | 1 | 09/17/21 | 09/18/21 03:12 | CMK |
| 1,1,2,2-Tetrachloroethane | ND | | ug/m³ | 1.40 | 0.35 | 1 | 09/17/21 | 09/18/21 03:12 | CMK |
| Tetrachloroethene | ND | | ug/m³ | 1.40 | 0.70 | 1 | 09/17/21 | 09/18/21 03:12 | CMK |
| Tetrahydrofuran | 0.71 | | ug/m³ | 0.59 | 0.15 | 1 | 09/17/21 | 09/18/21 03:12 | CMK |
| Toluene | 3.05 | | ug/m³ | 0.75 | 0.35 | 1 | 09/17/21 | 09/18/21 03:12 | CMK |
| 1,2,4-Trichlorobenzene | ND | | ug/m³ | 1.50 | 0.38 | 1 | 09/17/21 | 09/18/21 03:12 | CMK |
| 1,1,1-Trichloroethane | ND | | ug/m³ | 1.10 | 0.28 | 1 | 09/17/21 | 09/18/21 03:12 | CMK |
| 1,1,2-Trichloroethane | ND | | ug/m³ | 1.10 | 0.28 | 1 | 09/17/21 | 09/18/21 03:12 | CMK |
| Trichloroethene | ND | | ug/m³ | 1.10 | 0.28 | 1 | 09/17/21 | 09/18/21 03:12 | CMK |
| Trichlorofluoromethane (Freon 11) | 1.24 | | ug/m³ | 1.10 | 0.28 | 1 | 09/17/21 | 09/18/21 03:12 | CMK |
| 1,2,4-Trimethylbenzene | 0.29 | J | ug/m³ | 0.98 | 0.25 | 1 | 09/17/21 | 09/18/21 03:12 | CMK |
| 1,3,5-Trimethylbenzene | ND | | ug/m³ | 0.98 | 0.25 | 1 | 09/17/21 | 09/18/21 03:12 | CMK |
| 2,2,4-Trimethylpentane | 0.37 | J | ug/m³ | 0.93 | 0.23 | 1 | 09/17/21 | 09/18/21 03:12 | CMK |
| Vinyl acetate | ND | | ug/m³ | 0.70 | 0.70 | 1 | 09/17/21 | 09/18/21 03:12 | CMK |
| Vinyl bromide | ND | | ug/m³ | 0.87 | 0.22 | 1 | 09/17/21 | 09/18/21 03:12 | CMK |
| Vinyl chloride | ND | | ug/m³ | 0.51 | 0.13 | 1 | 09/17/21 | 09/18/21 03:12 | CMK |
| o-Xylene | 0.39 | J | ug/m³ | 0.87 | 0.22 | 1 | 09/17/21 | 09/18/21 03:12 | CMK |
| m- & p-Xylenes | 1.00 | J | ug/m³ | 1.70 | 0.43 | 1 | 09/17/21 | 09/18/21 03:12 | CMK |
| Surrogate: 4-Bromofluorobenzene | | 7. | 3-115 | 100 % | 09/17/21 | | 09/18/21 03:12 | | |

Willibringe

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Will Brewington, President

All analyses performed at Maryland Spectral Services included in the report are TNI certified except as indicated at the end of the report

Page 7 of 43

Maryland **spectral** Services



Project: 4920002

Project Number: [none] Project Manager: Amber Confer 1500 Caton Center Dr Suite G Baltimore MD 21227 410-247-7600 www.mdspectral.com

Reported:

09/21/21 10:46

JP-41 CLASS 21091322-002 1091424-02 (Vapor) Sample Date: 09/09/21

| | | | | Reporting | Detection | | | | |
|-----------------------------------|---------|-----------|-----------|-------------|-------------|----------|----------|----------------|---------|
| Analyte | Result | Notes | Units | Limit (MRL) | Limit (LOD) | Dilution | Prepared | Analyzed | Analyst |
| Volatile Organics by EPA TO-15 (G | C/MS) P | repared b | y TO-15 F | Prep | | | | | |
| Acetone | 14.0 | | ug/m³ | 2.40 | 2.40 | 1 | 09/17/21 | 09/18/21 03:46 | CMK |
| Benzene | 0.32 | J | ug/m³ | 0.64 | 0.16 | 1 | 09/17/21 | 09/18/21 03:46 | CMK |
| Benzyl chloride | ND | | ug/m³ | 1.00 | 0.25 | 1 | 09/17/21 | 09/18/21 03:46 | CMK |
| Bromodichloromethane | ND | | ug/m³ | 1.30 | 0.33 | 1 | 09/17/21 | 09/18/21 03:46 | CMK |
| Bromoform | ND | | ug/m³ | 2.10 | 0.53 | 1 | 09/17/21 | 09/18/21 03:46 | CMK |
| Bromomethane | ND | | ug/m³ | 0.78 | 0.20 | 1 | 09/17/21 | 09/18/21 03:46 | CMK |
| 1,3-Butadiene | ND | | ug/m³ | 0.44 | 0.44 | 1 | 09/17/21 | 09/18/21 03:46 | CMK |
| Carbon disulfide | ND | | ug/m³ | 1.56 | 1.56 | 1 | 09/17/21 | 09/18/21 03:46 | CMK |
| Carbon tetrachloride | 0.44 | J | ug/m³ | 1.30 | 0.33 | 1 | 09/17/21 | 09/18/21 03:46 | CMK |
| Chlorobenzene | ND | | ug/m³ | 0.92 | 0.23 | 1 | 09/17/21 | 09/18/21 03:46 | CMK |
| Chloroethane | ND | | ug/m³ | 0.53 | 0.27 | 1 | 09/17/21 | 09/18/21 03:46 | CMK |
| Chloroform | 0.63 | J | ug/m³ | 0.97 | 0.24 | 1 | 09/17/21 | 09/18/21 03:46 | CMK |
| Chloromethane | 1.01 | | ug/m³ | 0.41 | 0.10 | 1 | 09/17/21 | 09/18/21 03:46 | CMK |
| 3-Chloropropene | ND | | ug/m³ | 0.63 | 0.16 | 1 | 09/17/21 | 09/18/21 03:46 | CMK |
| Cyclohexane | ND | | ug/m³ | 0.69 | 0.17 | 1 | 09/17/21 | 09/18/21 03:46 | CMK |
| Dibromochloromethane | ND | | ug/m³ | 1.30 | 0.33 | 1 | 09/17/21 | 09/18/21 03:46 | CMK |
| 1,2-Dibromoethane (EDB) | ND | | ug/m³ | 1.40 | 0.35 | 1 | 09/17/21 | 09/18/21 03:46 | CMK |
| 1,2-Dichlorobenzene | ND | | ug/m³ | 1.20 | 0.30 | 1 | 09/17/21 | 09/18/21 03:46 | CMK |
| 1,3-Dichlorobenzene | ND | | ug/m³ | 1.20 | 0.30 | 1 | 09/17/21 | 09/18/21 03:46 | CMK |
| 1,4-Dichlorobenzene | ND | | ug/m³ | 1.20 | 0.30 | 1 | 09/17/21 | 09/18/21 03:46 | CMK |
| Dichlorodifluoromethane | 2.27 | | ug/m³ | 0.99 | 0.99 | 1 | 09/17/21 | 09/18/21 03:46 | CMK |
| 1,1-Dichloroethane | ND | | ug/m³ | 0.81 | 0.20 | 1 | 09/17/21 | 09/18/21 03:46 | CMK |
| 1,2-Dichloroethane | ND | | ug/m³ | 0.81 | 0.20 | 1 | 09/17/21 | 09/18/21 03:46 | CMK |
| 1,1-Dichloroethene | ND | | ug/m³ | 0.79 | 0.20 | 1 | 09/17/21 | 09/18/21 03:46 | CMK |
| cis-1,2-Dichloroethene | ND | | ug/m³ | 0.79 | 0.20 | 1 | 09/17/21 | 09/18/21 03:46 | CMK |
| trans-1,2-Dichloroethene | ND | | ug/m³ | 0.79 | 0.20 | 1 | 09/17/21 | 09/18/21 03:46 | CMK |
| 1,2-Dichloropropane | ND | | ug/m³ | 0.92 | 0.23 | 1 | 09/17/21 | 09/18/21 03:46 | CMK |
| cis-1,3-Dichloropropene | ND | | ug/m³ | 0.91 | 0.23 | 1 | 09/17/21 | 09/18/21 03:46 | CMK |
| trans-1,3-Dichloropropene | ND | | ug/m³ | 0.91 | 0.23 | 1 | 09/17/21 | 09/18/21 03:46 | CMK |
| 1,4-Dioxane | ND | | ug/m³ | 0.72 | 0.18 | 1 | 09/17/21 | 09/18/21 03:46 | CMK |
| Ethyl acetate | ND | | ug/m³ | 3.60 | 3.60 | 1 | 09/17/21 | 09/18/21 03:46 | CMK |
| Ethylbenzene | ND | | ug/m³ | 0.87 | 0.22 | 1 | 09/17/21 | 09/18/21 03:46 | CMK |
| 4-Ethyltoluene | ND | | ug/m³ | 0.98 | 0.25 | 1 | 09/17/21 | 09/18/21 03:46 | CMK |
| Freon 113 | 0.46 | J | ug/m³ | 1.50 | 0.38 | 1 | 09/17/21 | 09/18/21 03:46 | СМК |

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The results in this report apply to the samples analyzed in accordance with the chain of

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Page 8 of 43

Maryland **spectral** Services



Project: 4920002

Project Number: [none] Project Manager: Amber Confer 1500 Caton Center Dr Suite G Baltimore MD 21227 410-247-7600 www.mdspectral.com

Reported:

09/21/21 10:46

JP-41 CLASS 21091322-002 1091424-02 (Vapor) Sample Date: 09/09/21

| | | | | Reporting | Detection | | | | |
|-----------------------------------|-----------|-----------|------------------|-----------------|-------------|----------|----------------|----------------|---------|
| Analyte | Result | Notes | Units | Limit (MRL) | Limit (LOD) | Dilution | Prepared | Analyzed | Analyst |
| Volatile Organics by EPA TO-15 (O | GC/MS) Pi | repared b | <u>y TO-15 P</u> | rep (continued) | | | | | |
| Freon 114 | ND | | ug/m³ | 1.40 | 1.40 | 1 | 09/17/21 | 09/18/21 03:46 | CMK |
| n-Heptane | ND | | ug/m³ | 0.82 | 0.21 | 1 | 09/17/21 | 09/18/21 03:46 | CMK |
| Hexachlorobutadiene | ND | | ug/m³ | 2.10 | 2.10 | 1 | 09/17/21 | 09/18/21 03:46 | CMK |
| Hexane | ND | | ug/m³ | 14.0 | 14.0 | 1 | 09/17/21 | 09/18/21 03:46 | CMK |
| 2-Hexanone | ND | | ug/m³ | 0.82 | 0.15 | 1 | 09/17/21 | 09/18/21 03:46 | CMK |
| Isopropylbenzene (Cumene) | ND | | ug/m³ | 1.10 | 0.40 | 1 | 09/17/21 | 09/18/21 03:46 | CMK |
| Methyl tert-butyl ether (MTBE) | ND | | ug/m³ | 0.72 | 0.21 | 1 | 09/17/21 | 09/18/21 03:46 | CMK |
| Methylene chloride | ND | | ug/m³ | 18.0 | 18.0 | 1 | 09/17/21 | 09/18/21 03:46 | CMK |
| Methyl ethyl ketone (2-Butanone) | 1.15 | | ug/m³ | 0.59 | 0.34 | 1 | 09/17/21 | 09/18/21 03:46 | CMK |
| Methyl isobutyl ketone | ND | | ug/m³ | 0.82 | 0.82 | 1 | 09/17/21 | 09/18/21 03:46 | CMK |
| Naphthalene | ND | | ug/m³ | 1.10 | 0.70 | 1 | 09/17/21 | 09/18/21 03:46 | CMK |
| Propene | ND | | ug/m³ | 0.34 | 0.34 | 1 | 09/17/21 | 09/18/21 03:46 | CMK |
| n-Propylbenzene | ND | | ug/m³ | 0.98 | 0.40 | 1 | 09/17/21 | 09/18/21 03:46 | CMK |
| Styrene | ND | | ug/m³ | 0.85 | 0.15 | 1 | 09/17/21 | 09/18/21 03:46 | CMK |
| 1,1,2,2-Tetrachloroethane | ND | | ug/m³ | 1.40 | 0.35 | 1 | 09/17/21 | 09/18/21 03:46 | CMK |
| Tetrachloroethene | ND | | ug/m³ | 1.40 | 0.70 | 1 | 09/17/21 | 09/18/21 03:46 | CMK |
| Tetrahydrofuran | 0.18 | J | ug/m³ | 0.59 | 0.15 | 1 | 09/17/21 | 09/18/21 03:46 | CMK |
| Toluene | 1.47 | | ug/m³ | 0.75 | 0.35 | 1 | 09/17/21 | 09/18/21 03:46 | CMK |
| 1,2,4-Trichlorobenzene | ND | | ug/m³ | 1.50 | 0.38 | 1 | 09/17/21 | 09/18/21 03:46 | CMK |
| 1,1,1-Trichloroethane | ND | | ug/m³ | 1.10 | 0.28 | 1 | 09/17/21 | 09/18/21 03:46 | CMK |
| 1,1,2-Trichloroethane | ND | | ug/m³ | 1.10 | 0.28 | 1 | 09/17/21 | 09/18/21 03:46 | CMK |
| Trichloroethene | ND | | ug/m³ | 1.10 | 0.28 | 1 | 09/17/21 | 09/18/21 03:46 | CMK |
| Trichlorofluoromethane (Freon 11) | 1.24 | | ug/m³ | 1.10 | 0.28 | 1 | 09/17/21 | 09/18/21 03:46 | CMK |
| 1,2,4-Trimethylbenzene | ND | | ug/m³ | 0.98 | 0.25 | 1 | 09/17/21 | 09/18/21 03:46 | CMK |
| 1,3,5-Trimethylbenzene | ND | | ug/m³ | 0.98 | 0.25 | 1 | 09/17/21 | 09/18/21 03:46 | CMK |
| 2,2,4-Trimethylpentane | ND | | ug/m³ | 0.93 | 0.23 | 1 | 09/17/21 | 09/18/21 03:46 | CMK |
| Vinyl acetate | ND | | ug/m³ | 0.70 | 0.70 | 1 | 09/17/21 | 09/18/21 03:46 | CMK |
| Vinyl bromide | ND | | ug/m³ | 0.87 | 0.22 | 1 | 09/17/21 | 09/18/21 03:46 | CMK |
| Vinyl chloride | ND | | ug/m³ | 0.51 | 0.13 | 1 | 09/17/21 | 09/18/21 03:46 | CMK |
| o-Xylene | ND | | ug/m³ | 0.87 | 0.22 | 1 | 09/17/21 | 09/18/21 03:46 | CMK |
| m- & p-Xylenes | 0.43 | J | ug/m³ | 1.70 | 0.43 | 1 | 09/17/21 | 09/18/21 03:46 | СМК |
| Surrogate: 4-Bromofluorobenzene | | 7 | 3-115 | 95 % | 09/17/21 | , | 09/18/21 03:46 | | |

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Will Brewington, President

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Page 9 of 43

Maryland **spectral** Services



Project: 4920002

Project Number: [none] Project Manager: Amber Confer 1500 Caton Center Dr Suite G Baltimore MD 21227 410-247-7600 www.mdspectral.com

Reported:

09/21/21 10:46

JP-38 CLASS 21091322-003 1091424-03 (Vapor) Sample Date: 09/09/21

| | | | | Reporting | Detection | | | | |
|------------------------------------|----------|-----------|-------------------|-------------|-------------|----------|----------|----------------|---------|
| Analyte | Result | Notes | Units | Limit (MRL) | Limit (LOD) | Dilution | Prepared | Analyzed | Analyst |
| Volatile Organics by EPA TO-15 (Go | C/MS) Pi | repared b | y TO-15 I | Prep | | | | | |
| Acetone | 15.1 | | ug/m³ | 2.40 | 2.40 | 1 | 09/17/21 | 09/18/21 04:20 | CMK |
| Benzene | 0.29 | J | ug/m³ | 0.64 | 0.16 | 1 | 09/17/21 | 09/18/21 04:20 | CMK |
| Benzyl chloride | ND | | ug/m³ | 1.00 | 0.25 | 1 | 09/17/21 | 09/18/21 04:20 | CMK |
| Bromodichloromethane | ND | | ug/m³ | 1.30 | 0.33 | 1 | 09/17/21 | 09/18/21 04:20 | CMK |
| Bromoform | ND | | ug/m³ | 2.10 | 0.53 | 1 | 09/17/21 | 09/18/21 04:20 | CMK |
| Bromomethane | ND | | ug/m³ | 0.78 | 0.20 | 1 | 09/17/21 | 09/18/21 04:20 | CMK |
| 1,3-Butadiene | ND | | ug/m³ | 0.44 | 0.44 | 1 | 09/17/21 | 09/18/21 04:20 | CMK |
| Carbon disulfide | ND | | ug/m³ | 1.56 | 1.56 | 1 | 09/17/21 | 09/18/21 04:20 | CMK |
| Carbon tetrachloride | 0.44 | J | ug/m³ | 1.30 | 0.33 | 1 | 09/17/21 | 09/18/21 04:20 | CMK |
| Chlorobenzene | ND | | ug/m³ | 0.92 | 0.23 | 1 | 09/17/21 | 09/18/21 04:20 | CMK |
| Chloroethane | ND | | ug/m³ | 0.53 | 0.27 | 1 | 09/17/21 | 09/18/21 04:20 | CMK |
| Chloroform | 0.54 | J | ug/m³ | 0.97 | 0.24 | 1 | 09/17/21 | 09/18/21 04:20 | CMK |
| Chloromethane | 1.01 | | ug/m ³ | 0.41 | 0.10 | 1 | 09/17/21 | 09/18/21 04:20 | CMK |
| 3-Chloropropene | ND | | ug/m³ | 0.63 | 0.16 | 1 | 09/17/21 | 09/18/21 04:20 | CMK |
| Cyclohexane | ND | | ug/m³ | 0.69 | 0.17 | 1 | 09/17/21 | 09/18/21 04:20 | CMK |
| Dibromochloromethane | ND | | ug/m³ | 1.30 | 0.33 | 1 | 09/17/21 | 09/18/21 04:20 | CMK |
| 1,2-Dibromoethane (EDB) | ND | | ug/m ³ | 1.40 | 0.35 | 1 | 09/17/21 | 09/18/21 04:20 | CMK |
| 1,2-Dichlorobenzene | ND | | ug/m³ | 1.20 | 0.30 | 1 | 09/17/21 | 09/18/21 04:20 | CMK |
| 1,3-Dichlorobenzene | ND | | ug/m³ | 1.20 | 0.30 | 1 | 09/17/21 | 09/18/21 04:20 | CMK |
| 1,4-Dichlorobenzene | ND | | ug/m³ | 1.20 | 0.30 | 1 | 09/17/21 | 09/18/21 04:20 | CMK |
| Dichlorodifluoromethane | 2.18 | | ug/m³ | 0.99 | 0.99 | 1 | 09/17/21 | 09/18/21 04:20 | CMK |
| 1,1-Dichloroethane | ND | | ug/m ³ | 0.81 | 0.20 | 1 | 09/17/21 | 09/18/21 04:20 | CMK |
| 1,2-Dichloroethane | ND | | ug/m³ | 0.81 | 0.20 | 1 | 09/17/21 | 09/18/21 04:20 | CMK |
| 1,1-Dichloroethene | ND | | ug/m³ | 0.79 | 0.20 | 1 | 09/17/21 | 09/18/21 04:20 | CMK |
| cis-1,2-Dichloroethene | ND | | ug/m³ | 0.79 | 0.20 | 1 | 09/17/21 | 09/18/21 04:20 | CMK |
| trans-1,2-Dichloroethene | ND | | ug/m³ | 0.79 | 0.20 | 1 | 09/17/21 | 09/18/21 04:20 | CMK |
| 1,2-Dichloropropane | ND | | ug/m³ | 0.92 | 0.23 | 1 | 09/17/21 | 09/18/21 04:20 | CMK |
| cis-1,3-Dichloropropene | ND | | ug/m³ | 0.91 | 0.23 | 1 | 09/17/21 | 09/18/21 04:20 | CMK |
| trans-1,3-Dichloropropene | ND | | ug/m³ | 0.91 | 0.23 | 1 | 09/17/21 | 09/18/21 04:20 | CMK |
| 1,4-Dioxane | ND | | ug/m³ | 0.72 | 0.18 | 1 | 09/17/21 | 09/18/21 04:20 | CMK |
| Ethyl acetate | ND | | ug/m³ | 3.60 | 3.60 | 1 | 09/17/21 | 09/18/21 04:20 | CMK |
| Ethylbenzene | ND | | ug/m³ | 0.87 | 0.22 | 1 | 09/17/21 | 09/18/21 04:20 | CMK |
| 4-Ethyltoluene | ND | | ug/m³ | 0.98 | 0.25 | 1 | 09/17/21 | 09/18/21 04:20 | CMK |
| Freon 113 | 0.46 | J | ug/m³ | 1.50 | 0.38 | 1 | 09/17/21 | 09/18/21 04:20 | CMK |

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Page 10 of 43

Version 1.000

Page 7 of 36

Maryland **spectral** Services



Project: 4920002

Project Number: [none] Project Manager: Amber Confer 1500 Caton Center Dr Suite G Baltimore MD 21227 410-247-7600 www.mdspectral.com

Reported:

09/21/21 10:46

JP-38 CLASS 21091322-003 1091424-03 (Vapor) Sample Date: 09/09/21

| | | | | Reporting | Detection | | | | |
|-----------------------------------|----------|-----------|-------------------|-----------------|-------------|----------|----------------|----------------|---------|
| Analyte | Result | Notes | Units | Limit (MRL) | Limit (LOD) | Dilution | Prepared | Analyzed | Analyst |
| Volatile Organics by EPA TO-15 (G | C/MS) Pi | repared b | <u>y TO-15 P</u> | rep (continued) | | | | | |
| Freon 114 | ND | | ug/m³ | 1.40 | 1.40 | 1 | 09/17/21 | 09/18/21 04:20 | CMK |
| n-Heptane | ND | | ug/m³ | 0.82 | 0.21 | 1 | 09/17/21 | 09/18/21 04:20 | CMK |
| Hexachlorobutadiene | ND | | ug/m³ | 2.10 | 2.10 | 1 | 09/17/21 | 09/18/21 04:20 | CMK |
| Hexane | ND | | ug/m³ | 14.0 | 14.0 | 1 | 09/17/21 | 09/18/21 04:20 | CMK |
| 2-Hexanone | 0.16 | J | ug/m ³ | 0.82 | 0.15 | 1 | 09/17/21 | 09/18/21 04:20 | CMK |
| Isopropylbenzene (Cumene) | ND | | ug/m³ | 1.10 | 0.40 | 1 | 09/17/21 | 09/18/21 04:20 | CMK |
| Methyl tert-butyl ether (MTBE) | ND | | ug/m³ | 0.72 | 0.21 | 1 | 09/17/21 | 09/18/21 04:20 | CMK |
| Methylene chloride | ND | | ug/m³ | 18.0 | 18.0 | 1 | 09/17/21 | 09/18/21 04:20 | CMK |
| Methyl ethyl ketone (2-Butanone) | 1.03 | | ug/m³ | 0.59 | 0.34 | 1 | 09/17/21 | 09/18/21 04:20 | CMK |
| Methyl isobutyl ketone | ND | | ug/m ³ | 0.82 | 0.82 | 1 | 09/17/21 | 09/18/21 04:20 | CMK |
| Naphthalene | ND | | ug/m ³ | 1.10 | 0.70 | 1 | 09/17/21 | 09/18/21 04:20 | CMK |
| Propene | ND | | ug/m³ | 0.34 | 0.34 | 1 | 09/17/21 | 09/18/21 04:20 | CMK |
| n-Propylbenzene | ND | | ug/m³ | 0.98 | 0.40 | 1 | 09/17/21 | 09/18/21 04:20 | CMK |
| Styrene | 0.17 | J | ug/m³ | 0.85 | 0.15 | 1 | 09/17/21 | 09/18/21 04:20 | CMK |
| 1,1,2,2-Tetrachloroethane | ND | | ug/m³ | 1.40 | 0.35 | 1 | 09/17/21 | 09/18/21 04:20 | CMK |
| Tetrachloroethene | ND | | ug/m³ | 1.40 | 0.70 | 1 | 09/17/21 | 09/18/21 04:20 | CMK |
| Tetrahydrofuran | ND | | ug/m³ | 0.59 | 0.15 | 1 | 09/17/21 | 09/18/21 04:20 | CMK |
| Toluene | 1.51 | | ug/m³ | 0.75 | 0.35 | 1 | 09/17/21 | 09/18/21 04:20 | CMK |
| 1,2,4-Trichlorobenzene | ND | | ug/m ³ | 1.50 | 0.38 | 1 | 09/17/21 | 09/18/21 04:20 | CMK |
| 1,1,1-Trichloroethane | ND | | ug/m ³ | 1.10 | 0.28 | 1 | 09/17/21 | 09/18/21 04:20 | CMK |
| 1,1,2-Trichloroethane | ND | | ug/m³ | 1.10 | 0.28 | 1 | 09/17/21 | 09/18/21 04:20 | CMK |
| Trichloroethene | ND | | ug/m³ | 1.10 | 0.28 | 1 | 09/17/21 | 09/18/21 04:20 | CMK |
| Trichlorofluoromethane (Freon 11) | 1.24 | | ug/m³ | 1.10 | 0.28 | 1 | 09/17/21 | 09/18/21 04:20 | CMK |
| 1,2,4-Trimethylbenzene | ND | | ug/m ³ | 0.98 | 0.25 | 1 | 09/17/21 | 09/18/21 04:20 | CMK |
| 1,3,5-Trimethylbenzene | ND | | ug/m³ | 0.98 | 0.25 | 1 | 09/17/21 | 09/18/21 04:20 | CMK |
| 2,2,4-Trimethylpentane | ND | | ug/m³ | 0.93 | 0.23 | 1 | 09/17/21 | 09/18/21 04:20 | CMK |
| Vinyl acetate | ND | | ug/m³ | 0.70 | 0.70 | 1 | 09/17/21 | 09/18/21 04:20 | CMK |
| Vinyl bromide | ND | | ug/m³ | 0.87 | 0.22 | 1 | 09/17/21 | 09/18/21 04:20 | CMK |
| Vinyl chloride | ND | | ug/m³ | 0.51 | 0.13 | 1 | 09/17/21 | 09/18/21 04:20 | CMK |
| p-Xylene | ND | | ug/m³ | 0.87 | 0.22 | 1 | 09/17/21 | 09/18/21 04:20 | CMK |
| m- & p-Xylenes | 0.43 | J | ug/m³ | 1.70 | 0.43 | 1 | 09/17/21 | 09/18/21 04:20 | CMK |
| Surrogate: 4-Bromofluorobenzene | | 7. | 3-115 | 95 % | 09/17/21 | | 09/18/21 04:20 | | |

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Will Brewington, President

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Page 11 of 43

Maryland **spectral** Services



Analytical Results

Project: 4920002

Project Number: [none] Project Manager: Amber Confer 1500 Caton Center Dr Suite G Baltimore MD 21227 410-247-7600 www.mdspectral.com

Reported:

09/21/21 10:46

JP-35 HALL 21091322-004 1091424-04 (Vapor) Sample Date: 09/09/21

| | | | | Reporting | Detection | | | | |
|----------------------------------|------------|------------|------------------|-------------|-------------|----------|----------|---------------------------------------|---------|
| Analyte | Result | Notes | Units | Limit (MRL) | Limit (LOD) | Dilution | Prepared | Analyzed | Analyst |
| Volatile Organics by EPA TO-15 (| (GC/MS) Pi | repared by | <u>y TO-15</u> F | rep | | | _ | · · · · · · · · · · · · · · · · · · · | |
| Acetone | 16.1 | | ug/m³ | 2.40 | 2.40 | 1 | 09/17/21 | 09/18/21 04:54 | СМК |
| Benzene | 0.29 | J | ug/m³ | 0.64 | 0.16 | 1 | 09/17/21 | 09/18/21 04:54 | CMK |
| Benzyl chloride | ND | | ug/m³ | 1.00 | 0.25 | 1 | 09/17/21 | 09/18/21 04:54 | CMK |
| Bromodichloromethane | ND | | ug/m³ | 1.30 | 0.33 | 1 | 09/17/21 | 09/18/21 04:54 | CMK |
| Bromoform | ND | | ug/m³ | 2.10 | 0.53 | 1 | 09/17/21 | 09/18/21 04:54 | CMK |
| Bromomethane | ND | | ug/m³ | 0.78 | 0.20 | 1 | 09/17/21 | 09/18/21 04:54 | CMK |
| 1,3-Butadiene | ND | | ug/m³ | 0.44 | 0.44 | 1 | 09/17/21 | 09/18/21 04:54 | CMK |
| Carbon disulfide | ND | | ug/m³ | 1.56 | 1.56 | 1 | 09/17/21 | 09/18/21 04:54 | CMK |
| Carbon tetrachloride | 0.44 | J | ug/m³ | 1.30 | 0.33 | 1 | 09/17/21 | 09/18/21 04:54 | СМК |
| Chlorobenzene | ND | | ug/m³ | 0.92 | 0.23 | 1 | 09/17/21 | 09/18/21 04:54 | СМК |
| Chloroethane | ND | | ug/m³ | 0.53 | 0.27 | 1 | 09/17/21 | 09/18/21 04:54 | CMK |
| Chloroform | 0.88 | J | ug/m³ | 0.97 | 0.24 | 1 | 09/17/21 | 09/18/21 04:54 | CMK |
| Chloromethane | 0.99 | | ug/m³ | 0.41 | 0.10 | 1 | 09/17/21 | 09/18/21 04:54 | СМК |
| 3-Chloropropene | ND | | ug/m³ | 0.63 | 0.16 | 1 | 09/17/21 | 09/18/21 04:54 | CMK |
| Cyclohexane | ND | | ug/m³ | 0.69 | 0.17 | 1 | 09/17/21 | 09/18/21 04:54 | CMK |
| Dibromochloromethane | ND | | ug/m³ | 1.30 | 0.33 | 1 | 09/17/21 | 09/18/21 04:54 | CMK |
| 1,2-Dibromoethane (EDB) | ND | | ug/m³ | 1.40 | 0.35 | 1 | 09/17/21 | 09/18/21 04:54 | CMK |
| 1,2-Dichlorobenzene | ND | | ug/m³ | 1.20 | 0.30 | 1 | 09/17/21 | 09/18/21 04:54 | CMK |
| 1,3-Dichlorobenzene | ND | | ug/m³ | 1.20 | 0.30 | 1 | 09/17/21 | 09/18/21 04:54 | CMK |
| 1,4-Dichlorobenzene | ND | | ug/m³ | 1.20 | 0.30 | 1 | 09/17/21 | 09/18/21 04:54 | CMK |
| Dichlorodifluoromethane | 2.23 | | ug/m³ | 0.99 | 0.99 | 1 | 09/17/21 | 09/18/21 04:54 | CMK |
| 1,1-Dichloroethane | ND | | ug/m³ | 0.81 | 0.20 | 1 | 09/17/21 | 09/18/21 04:54 | CMK |
| 1,2-Dichloroethane | ND | | ug/m³ | 0.81 | 0.20 | 1 | 09/17/21 | 09/18/21 04:54 | СМК |
| 1,1-Dichloroethene | ND | | ug/m³ | 0.79 | 0.20 | 1 | 09/17/21 | 09/18/21 04:54 | СМК |
| cis-1,2-Dichloroethene | ND | | ug/m³ | 0.79 | 0.20 | 1 | 09/17/21 | 09/18/21 04:54 | CMK |
| trans-1,2-Dichloroethene | ND | | ug/m³ | 0.79 | 0.20 | 1 | 09/17/21 | 09/18/21 04:54 | CMK |
| 1,2-Dichloropropane | ND | | ug/m³ | 0.92 | 0.23 | 1 | 09/17/21 | 09/18/21 04:54 | СМК |
| cis-1,3-Dichloropropene | ND | | ug/m³ | 0.91 | 0.23 | 1 | 09/17/21 | 09/18/21 04:54 | СМК |
| trans-1,3-Dichloropropene | ND | | ug/m³ | 0.91 | 0.23 | 1 | 09/17/21 | 09/18/21 04:54 | СМК |
| 1,4-Dioxane | ND | | ug/m³ | 0.72 | 0.18 | 1 | 09/17/21 | 09/18/21 04:54 | СМК |
| Ethyl acetate | ND | | ug/m³ | 3.60 | 3.60 | 1 | 09/17/21 | 09/18/21 04:54 | СМК |
| Ethylbenzene | ND | | ug/m³ | 0.87 | 0.22 | 1 | 09/17/21 | 09/18/21 04:54 | СМК |
| 4-Ethyltoluene | ND | | ug/m³ | 0.98 | 0.25 | 1 | 09/17/21 | 09/18/21 04:54 | CMK |
| Freon 113 | 0.46 | J | ug/m³ | 1.50 | 0.38 | 1 | 09/17/21 | 09/18/21 04:54 | CMK |

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Page 12 of 43

Maryland spectral Ser es



Project: 4920002

Project Number: [none] Project Manager: Amber Confer 1500 Caton Center Dr Suite G Baltimore MD 21227 410-247-7600 www.mdspectral.com

Reported:

09/21/21 10:46

JP-35 HALL 21091322-004 1091424-04 (Vapor) Sample Date: 09/09/21

| | | | | Reporting | Detection | | | | |
|-----------------------------------|-----------|------------|---------|-----------------|-------------|----------|----------------|----------------|---------|
| Analyte | Result | Notes | Units | Limit (MRL) | Limit (LOD) | Dilution | Prepared | Analyzed | Analyst |
| Volatile Organics by EPA TO-15 (C | GC/MS) Pi | repared by | TO-15 P | rep (continued) | | | | | |
| Freon 114 | ND | | ug/m³ | 1.40 | 1.40 | 1 | 09/17/21 | 09/18/21 04:54 | CMK |
| n-Heptane | ND | | ug/m³ | 0.82 | 0.21 | 1 | 09/17/21 | 09/18/21 04:54 | CMK |
| Hexachlorobutadiene | ND | | ug/m³ | 2.10 | 2.10 | 1 | 09/17/21 | 09/18/21 04:54 | CMK |
| Hexane | ND | | ug/m³ | 14.0 | 14.0 | 1 | 09/17/21 | 09/18/21 04:54 | CMK |
| 2-Hexanone | 0.20 | J | ug/m³ | 0.82 | 0.15 | 1 | 09/17/21 | 09/18/21 04:54 | CMK |
| Isopropylbenzene (Cumene) | ND | | ug/m³ | 1.10 | 0.40 | 1 | 09/17/21 | 09/18/21 04:54 | CMK |
| Methyl tert-butyl ether (MTBE) | ND | | ug/m³ | 0.72 | 0.21 | 1 | 09/17/21 | 09/18/21 04:54 | CMK |
| Methylene chloride | ND | | ug/m³ | 18.0 | 18.0 | 1 | 09/17/21 | 09/18/21 04:54 | CMK |
| Methyl ethyl ketone (2-Butanone) | 1.09 | | ug/m³ | 0.59 | 0.34 | 1 | 09/17/21 | 09/18/21 04:54 | CMK |
| Methyl isobutyl ketone | ND | | ug/m³ | 0.82 | 0.82 | 1 | 09/17/21 | 09/18/21 04:54 | CMK |
| Naphthalene | ND | | ug/m³ | 1.10 | 0.70 | 1 | 09/17/21 | 09/18/21 04:54 | CMK |
| Propene | ND | | ug/m³ | 0.34 | 0.34 | 1 | 09/17/21 | 09/18/21 04:54 | CMK |
| n-Propylbenzene | ND | | ug/m³ | 0.98 | 0.40 | 1 | 09/17/21 | 09/18/21 04:54 | CMK |
| Styrene | ND | | ug/m³ | 0.85 | 0.15 | 1 | 09/17/21 | 09/18/21 04:54 | CMK |
| 1,1,2,2-Tetrachloroethane | ND | | ug/m³ | 1.40 | 0.35 | 1 | 09/17/21 | 09/18/21 04:54 | CMK |
| Tetrachloroethene | ND | | ug/m³ | 1.40 | 0.70 | 1 | 09/17/21 | 09/18/21 04:54 | CMK |
| Tetrahydrofuran | ND | | ug/m³ | 0.59 | 0.15 | 1 | 09/17/21 | 09/18/21 04:54 | CMK |
| Toluene | 1.66 | | ug/m³ | 0.75 | 0.35 | 1 | 09/17/21 | 09/18/21 04:54 | CMK |
| 1,2,4-Trichlorobenzene | ND | | ug/m³ | 1.50 | 0.38 | 1 | 09/17/21 | 09/18/21 04:54 | CMK |
| 1,1,1-Trichloroethane | ND | | ug/m³ | 1.10 | 0.28 | 1 | 09/17/21 | 09/18/21 04:54 | CMK |
| 1,1,2-Trichloroethane | ND | | ug/m³ | 1.10 | 0.28 | 1 | 09/17/21 | 09/18/21 04:54 | CMK |
| Trichloroethene | ND | | ug/m³ | 1.10 | 0.28 | 1 | 09/17/21 | 09/18/21 04:54 | CMK |
| Trichlorofluoromethane (Freon 11) | 1.24 | | ug/m³ | 1.10 | 0.28 | 1 | 09/17/21 | 09/18/21 04:54 | CMK |
| 1,2,4-Trimethylbenzene | ND | | ug/m³ | 0.98 | 0.25 | 1 | 09/17/21 | 09/18/21 04:54 | CMK |
| 1,3,5-Trimethylbenzene | ND | | ug/m³ | 0.98 | 0.25 | 1 | 09/17/21 | 09/18/21 04:54 | CMK |
| 2,2,4-Trimethylpentane | ND | | ug/m³ | 0.93 | 0.23 | 1 | 09/17/21 | 09/18/21 04:54 | CMK |
| Vinyl acetate | ND | | ug/m³ | 0.70 | 0.70 | 1 | 09/17/21 | 09/18/21 04:54 | CMK |
| Vinyl bromide | ND | | ug/m³ | 0.87 | 0.22 | 1 | 09/17/21 | 09/18/21 04:54 | CMK |
| Vinyl chloride | ND | | ug/m³ | 0.51 | 0.13 | 1 | 09/17/21 | 09/18/21 04:54 | CMK |
| o-Xylene | ND | | ug/m³ | 0.87 | 0.22 | 1 | 09/17/21 | 09/18/21 04:54 | CMK |
| m- & p-Xylenes | ND | | ug/m³ | 1.70 | 0.43 | 1 | 09/17/21 | 09/18/21 04:54 | CMK |
| Surrogate: 4-Bromofluorobenzene | | 73- | -115 | 94 % | 09/17/2 | I | 09/18/21 04:54 | | |

Surrogate: 4-Bromofluorobenzen

Willisinge

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Will Brewington, President

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Page 13 of 43

Version 1.000

Maryland **spectral** Services



Project: 4920002

Project Number: [none] Project Manager: Amber Confer 1500 Caton Center Dr Suite G Baltimore MD 21227 410-247-7600 www.mdspectral.com

Reported:

09/21/21 10:46

JP-RECEPTION 21091322-005 1091424-05 (Vapor) Sample Date: 09/09/21

| | | | | Reporting | Detection | | | | |
|--------------------------------|-----------|------------|-----------|-------------|-------------|----------|----------|----------------|---------|
| Analyte | Result | Notes | Units | Limit (MRL) | Limit (LOD) | Dilution | Prepared | Analyzed | Analyst |
| Volatile Organics by EPA TO-15 | (GC/MS) P | repared by | y TO-15 F | rep | | | | | |
| Acetone | 17.9 | | ug/m³ | 2.40 | 2.40 | 1 | 09/17/21 | 09/18/21 05:28 | CMK |
| Benzene | 0.32 | J | ug/m³ | 0.64 | 0.16 | 1 | 09/17/21 | 09/18/21 05:28 | CMK |
| Benzyl chloride | ND | | ug/m³ | 1.00 | 0.25 | 1 | 09/17/21 | 09/18/21 05:28 | CMK |
| Bromodichloromethane | ND | | ug/m³ | 1.30 | 0.33 | 1 | 09/17/21 | 09/18/21 05:28 | CMK |
| Bromoform | ND | | ug/m³ | 2.10 | 0.53 | 1 | 09/17/21 | 09/18/21 05:28 | CMK |
| Bromomethane | ND | | ug/m³ | 0.78 | 0.20 | 1 | 09/17/21 | 09/18/21 05:28 | CMK |
| 1,3-Butadiene | ND | | ug/m³ | 0.44 | 0.44 | 1 | 09/17/21 | 09/18/21 05:28 | CMK |
| Carbon disulfide | ND | | ug/m³ | 1.56 | 1.56 | 1 | 09/17/21 | 09/18/21 05:28 | CMK |
| Carbon tetrachloride | 0.50 | J | ug/m³ | 1.30 | 0.33 | 1 | 09/17/21 | 09/18/21 05:28 | CMK |
| Chlorobenzene | ND | | ug/m³ | 0.92 | 0.23 | 1 | 09/17/21 | 09/18/21 05:28 | CMK |
| Chloroethane | ND | | ug/m³ | 0.53 | 0.27 | 1 | 09/17/21 | 09/18/21 05:28 | CMK |
| Chloroform | 2.44 | | ug/m³ | 0.97 | 0.24 | 1 | 09/17/21 | 09/18/21 05:28 | CMK |
| Chloromethane | 1.07 | | ug/m³ | 0.41 | 0.10 | 1 | 09/17/21 | 09/18/21 05:28 | CMK |
| 3-Chloropropene | ND | | ug/m³ | 0.63 | 0.16 | 1 | 09/17/21 | 09/18/21 05:28 | CMK |
| Cyclohexane | ND | | ug/m³ | 0.69 | 0.17 | 1 | 09/17/21 | 09/18/21 05:28 | CMK |
| Dibromochloromethane | ND | | ug/m³ | 1.30 | 0.33 | 1 | 09/17/21 | 09/18/21 05:28 | CMK |
| 1,2-Dibromoethane (EDB) | ND | | ug/m³ | 1.40 | 0.35 | 1 | 09/17/21 | 09/18/21 05:28 | CMK |
| 1,2-Dichlorobenzene | ND | | ug/m³ | 1.20 | 0.30 | 1 | 09/17/21 | 09/18/21 05:28 | CMK |
| 1,3-Dichlorobenzene | ND | | ug/m³ | 1.20 | 0.30 | 1 | 09/17/21 | 09/18/21 05:28 | CMK |
| 1,4-Dichlorobenzene | 0.30 | J | ug/m³ | 1.20 | 0.30 | 1 | 09/17/21 | 09/18/21 05:28 | CMK |
| Dichlorodifluoromethane | 2.23 | | ug/m³ | 0.99 | 0.99 | 1 | 09/17/21 | 09/18/21 05:28 | CMK |
| 1,1-Dichloroethane | ND | | ug/m³ | 0.81 | 0.20 | 1 | 09/17/21 | 09/18/21 05:28 | CMK |
| 1,2-Dichloroethane | 1.01 | | ug/m³ | 0.81 | 0.20 | 1 | 09/17/21 | 09/18/21 05:28 | CMK |
| 1,1-Dichloroethene | ND | | ug/m³ | 0.79 | 0.20 | 1 | 09/17/21 | 09/18/21 05:28 | CMK |
| cis-1,2-Dichloroethene | ND | | ug/m³ | 0.79 | 0.20 | 1 | 09/17/21 | 09/18/21 05:28 | CMK |
| trans-1,2-Dichloroethene | ND | | ug/m³ | 0.79 | 0.20 | 1 | 09/17/21 | 09/18/21 05:28 | CMK |
| 1,2-Dichloropropane | ND | | ug/m³ | 0.92 | 0.23 | 1 | 09/17/21 | 09/18/21 05:28 | CMK |
| cis-1,3-Dichloropropene | ND | | ug/m³ | 0.91 | 0.23 | 1 | 09/17/21 | 09/18/21 05:28 | CMK |
| trans-1,3-Dichloropropene | ND | | ug/m³ | 0.91 | 0.23 | 1 | 09/17/21 | 09/18/21 05:28 | CMK |
| 1,4-Dioxane | ND | | ug/m³ | 0.72 | 0.18 | 1 | 09/17/21 | 09/18/21 05:28 | CMK |
| Ethyl acetate | ND | | ug/m³ | 3.60 | 3.60 | 1 | 09/17/21 | 09/18/21 05:28 | CMK |
| Ethylbenzene | ND | | ug/m³ | 0.87 | 0.22 | 1 | 09/17/21 | 09/18/21 05:28 | CMK |
| 4-Ethyltoluene | ND | | ug/m³ | 0.98 | 0.25 | 1 | 09/17/21 | 09/18/21 05:28 | CMK |
| Freon 113 | 0.46 | J | ug/m³ | 1.50 | 0.38 | 1 | 09/17/21 | 09/18/21 05:28 | CMK |
| | | | | | | | | | |

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The results in this report apply to the samples analyzed in accordance with the chain of

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Page 14 of 43

Maryland **spectral** Services



Project: 4920002

Project Number: [none] Project Manager: Amber Confer 1500 Caton Center Dr Suite G Baltimore MD 21227 410-247-7600 www.mdspectral.com

Reported:

09/21/21 10:46

JP-RECEPTION 21091322-005 1091424-05 (Vapor) Sample Date: 09/09/21

| | | | | Reporting | Detection | | | | |
|-----------------------------------|----------|------------|-------------------|-----------------|-------------|----------|----------------|----------------|---------|
| Analyte | Result | Notes | Units | Limit (MRL) | Limit (LOD) | Dilution | Prepared | Analyzed | Analyst |
| Volatile Organics by EPA TO-15 (G | C/MS) Pi | repared by | y TO-15 P | rep (continued) | | | | | |
| Freon 114 | ND | | ug/m³ | 1.40 | 1.40 | 1 | 09/17/21 | 09/18/21 05:28 | CMK |
| n-Heptane | 0.25 | J | ug/m³ | 0.82 | 0.21 | 1 | 09/17/21 | 09/18/21 05:28 | CMK |
| Hexachlorobutadiene | ND | | ug/m³ | 2.10 | 2.10 | 1 | 09/17/21 | 09/18/21 05:28 | CMK |
| Hexane | ND | | ug/m³ | 14.0 | 14.0 | 1 | 09/17/21 | 09/18/21 05:28 | CMK |
| 2-Hexanone | 0.20 | J | ug/m³ | 0.82 | 0.15 | 1 | 09/17/21 | 09/18/21 05:28 | CMK |
| Isopropylbenzene (Cumene) | ND | | ug/m³ | 1.10 | 0.40 | 1 | 09/17/21 | 09/18/21 05:28 | CMK |
| Methyl tert-butyl ether (MTBE) | ND | | ug/m³ | 0.72 | 0.21 | 1 | 09/17/21 | 09/18/21 05:28 | CMK |
| Methylene chloride | ND | | ug/m³ | 18.0 | 18.0 | 1 | 09/17/21 | 09/18/21 05:28 | CMK |
| Methyl ethyl ketone (2-Butanone) | 1.09 | | ug/m³ | 0.59 | 0.34 | 1 | 09/17/21 | 09/18/21 05:28 | CMK |
| Methyl isobutyl ketone | ND | | ug/m³ | 0.82 | 0.82 | 1 | 09/17/21 | 09/18/21 05:28 | CMK |
| Naphthalene | ND | | ug/m³ | 1.10 | 0.70 | 1 | 09/17/21 | 09/18/21 05:28 | CMK |
| Propene | ND | | ug/m³ | 0.34 | 0.34 | 1 | 09/17/21 | 09/18/21 05:28 | CMK |
| n-Propylbenzene | ND | | ug/m³ | 0.98 | 0.40 | 1 | 09/17/21 | 09/18/21 05:28 | CMK |
| Styrene | 0.30 | J | ug/m³ | 0.85 | 0.15 | 1 | 09/17/21 | 09/18/21 05:28 | CMK |
| 1,1,2,2-Tetrachloroethane | ND | | ug/m³ | 1.40 | 0.35 | 1 | 09/17/21 | 09/18/21 05:28 | CMK |
| Tetrachloroethene | ND | | ug/m³ | 1.40 | 0.70 | 1 | 09/17/21 | 09/18/21 05:28 | CMK |
| Tetrahydrofuran | 0.18 | J | ug/m³ | 0.59 | 0.15 | 1 | 09/17/21 | 09/18/21 05:28 | CMK |
| Toluene | 2.45 | | ug/m³ | 0.75 | 0.35 | 1 | 09/17/21 | 09/18/21 05:28 | CMK |
| 1,2,4-Trichlorobenzene | ND | | ug/m³ | 1.50 | 0.38 | 1 | 09/17/21 | 09/18/21 05:28 | CMK |
| 1,1,1-Trichloroethane | ND | | ug/m³ | 1.10 | 0.28 | 1 | 09/17/21 | 09/18/21 05:28 | CMK |
| 1,1,2-Trichloroethane | ND | | ug/m³ | 1.10 | 0.28 | 1 | 09/17/21 | 09/18/21 05:28 | CMK |
| Trichloroethene | ND | | ug/m³ | 1.10 | 0.28 | 1 | 09/17/21 | 09/18/21 05:28 | CMK |
| Trichlorofluoromethane (Freon 11) | 1.29 | | ug/m³ | 1.10 | 0.28 | 1 | 09/17/21 | 09/18/21 05:28 | CMK |
| 1,2,4-Trimethylbenzene | ND | | ug/m³ | 0.98 | 0.25 | 1 | 09/17/21 | 09/18/21 05:28 | CMK |
| 1,3,5-Trimethylbenzene | ND | | ug/m³ | 0.98 | 0.25 | 1 | 09/17/21 | 09/18/21 05:28 | CMK |
| 2,2,4-Trimethylpentane | ND | | ug/m³ | 0.93 | 0.23 | 1 | 09/17/21 | 09/18/21 05:28 | CMK |
| Vinyl acetate | ND | | ug/m³ | 0.70 | 0.70 | 1 | 09/17/21 | 09/18/21 05:28 | CMK |
| Vinyl bromide | ND | | ug/m³ | 0.87 | 0.22 | 1 | 09/17/21 | 09/18/21 05:28 | CMK |
| Vinyl chloride | ND | | ug/m³ | 0.51 | 0.13 | 1 | 09/17/21 | 09/18/21 05:28 | CMK |
| o-Xylene | 0.30 | J | ug/m ³ | 0.87 | 0.22 | 1 | 09/17/21 | 09/18/21 05:28 | СМК |
| m- & p-Xylenes | 0.69 | J | ug/m ³ | 1.70 | 0.43 | 1 | 09/17/21 | 09/18/21 05:28 | CMK |
| Surrogate: 4-Bromofluorobenzene | | 73 | 8-115 | 95 % | 09/17/21 | | 09/18/21 05:28 | | |

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Page 15 of 43

Version 1.000

Page 12 of 36

Maryland **spectral** Services



Analytical Results

Project: 4920002

Project Number: [none] Project Manager: Amber Confer 1500 Caton Center Dr Suite G Baltimore MD 21227 410-247-7600 www.mdspectral.com

Reported:

09/21/21 10:46

JP-53 HALL 21091322-006 1091424-06 (Vapor) Sample Date: 09/09/21

| | | | | Reporting | Detection | | | | |
|--------------------------------|-----------|-----------|-------------------|-------------|-------------|----------|----------|---------------------------------------|---------|
| Analyte | Result | Notes | Units | Limit (MRL) | Limit (LOD) | Dilution | Prepared | Analyzed | Analyst |
| Volatile Organics by EPA TO-15 | (GC/MS) P | repared b | y TO-1 <u>5</u> I | rep | | | | · · · · · · · · · · · · · · · · · · · | |
| Acetone | 23.7 | | ug/m³ | 2.40 | 2.40 | 1 | 09/17/21 | 09/18/21 06:02 | CMK |
| Benzene | 0.32 | J | ug/m³ | 0.64 | 0.16 | 1 | 09/17/21 | 09/18/21 06:02 | CMK |
| Benzyl chloride | ND | | ug/m ³ | 1.00 | 0.25 | 1 | 09/17/21 | 09/18/21 06:02 | CMK |
| Bromodichloromethane | ND | | ug/m³ | 1.30 | 0.33 | 1 | 09/17/21 | 09/18/21 06:02 | CMK |
| Bromoform | ND | | ug/m³ | 2.10 | 0.53 | 1 | 09/17/21 | 09/18/21 06:02 | CMK |
| Bromomethane | ND | | ug/m³ | 0.78 | 0.20 | 1 | 09/17/21 | 09/18/21 06:02 | CMK |
| 1,3-Butadiene | ND | | ug/m³ | 0.44 | 0.44 | 1 | 09/17/21 | 09/18/21 06:02 | CMK |
| Carbon disulfide | ND | | ug/m³ | 1.56 | 1.56 | 1 | 09/17/21 | 09/18/21 06:02 | CMK |
| Carbon tetrachloride | 0.44 | J | ug/m³ | 1.30 | 0.33 | 1 | 09/17/21 | 09/18/21 06:02 | CMK |
| Chlorobenzene | ND | | ug/m³ | 0.92 | 0.23 | 1 | 09/17/21 | 09/18/21 06:02 | CMK |
| Chloroethane | ND | | ug/m³ | 0.53 | 0.27 | 1 | 09/17/21 | 09/18/21 06:02 | CMK |
| Chloroform | 1.03 | | ug/m³ | 0.97 | 0.24 | 1 | 09/17/21 | 09/18/21 06:02 | CMK |
| Chloromethane | 1.07 | | ug/m³ | 0.41 | 0.10 | 1 | 09/17/21 | 09/18/21 06:02 | CMK |
| 3-Chloropropene | ND | | ug/m³ | 0.63 | 0.16 | 1 | 09/17/21 | 09/18/21 06:02 | CMK |
| Cyclohexane | ND | | ug/m³ | 0.69 | 0.17 | 1 | 09/17/21 | 09/18/21 06:02 | CMK |
| Dibromochloromethane | ND | | ug/m³ | 1.30 | 0.33 | 1 | 09/17/21 | 09/18/21 06:02 | CMK |
| 1,2-Dibromoethane (EDB) | ND | | ug/m³ | 1.40 | 0.35 | 1 | 09/17/21 | 09/18/21 06:02 | CMK |
| 1,2-Dichlorobenzene | ND | | ug/m³ | 1.20 | 0.30 | 1 | 09/17/21 | 09/18/21 06:02 | CMK |
| 1,3-Dichlorobenzene | ND | | ug/m³ | 1.20 | 0.30 | 1 | 09/17/21 | 09/18/21 06:02 | CMK |
| 1,4-Dichlorobenzene | ND | | ug/m³ | 1.20 | 0.30 | 1 | 09/17/21 | 09/18/21 06:02 | CMK |
| Dichlorodifluoromethane | 2.18 | | ug/m³ | 0.99 | 0.99 | 1 | 09/17/21 | 09/18/21 06:02 | CMK |
| 1,1-Dichloroethane | ND | | ug/m³ | 0.81 | 0.20 | 1 | 09/17/21 | 09/18/21 06:02 | CMK |
| 1,2-Dichloroethane | ND | | ug/m³ | 0.81 | 0.20 | 1 | 09/17/21 | 09/18/21 06:02 | CMK |
| 1,1-Dichloroethene | ND | | ug/m³ | 0.79 | 0.20 | 1 | 09/17/21 | 09/18/21 06:02 | CMK |
| cis-1,2-Dichloroethene | ND | | ug/m³ | 0.79 | 0.20 | 1 | 09/17/21 | 09/18/21 06:02 | CMK |
| trans-1,2-Dichloroethene | ND | | ug/m³ | 0.79 | 0.20 | 1 | 09/17/21 | 09/18/21 06:02 | CMK |
| 1,2-Dichloropropane | ND | | ug/m³ | 0.92 | 0.23 | 1 | 09/17/21 | 09/18/21 06:02 | CMK |
| cis-1,3-Dichloropropene | ND | | ug/m³ | 0.91 | 0.23 | 1 | 09/17/21 | 09/18/21 06:02 | CMK |
| trans-1,3-Dichloropropene | ND | | ug/m³ | 0.91 | 0.23 | 1 | 09/17/21 | 09/18/21 06:02 | CMK |
| 1,4-Dioxane | ND | | ug/m³ | 0.72 | 0.18 | 1 | 09/17/21 | 09/18/21 06:02 | CMK |
| Ethyl acetate | ND | | ug/m³ | 3.60 | 3.60 | 1 | 09/17/21 | 09/18/21 06:02 | CMK |
| Ethylbenzene | ND | | ug/m³ | 0.87 | 0.22 | 1 | 09/17/21 | 09/18/21 06:02 | CMK |
| 4-Ethyltoluene | ND | | ug/m³ | 0.98 | 0.25 | 1 | 09/17/21 | 09/18/21 06:02 | CMK |
| Freon 113 | 0.46 | J | ug/m³ | 1.50 | 0.38 | 1 | 09/17/21 | 09/18/21 06:02 | CMK |

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The results in this report apply to the samples analyzed in accordance with the chain of

custody document. This analytical report must be reproduced in its entirety.

Will Brewington, President

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Page 16 of 43

Maryland **spectral** Services



Analytical Results

Project: 4920002

Project Number: [none] Project Manager: Amber Confer 1500 Caton Center Dr Suite G Baltimore MD 21227 410-247-7600 www.mdspectral.com

Reported:

09/21/21 10:46

JP-53 HALL 21091322-006 1091424-06 (Vapor) Sample Date: 09/09/21

| | | | | Reporting | Detection | | | | |
|-----------------------------------|----------|------------|------------------|-----------------|-------------|----------|----------------|----------------|---------|
| Analyte | Result | Notes | Units | Limit (MRL) | Limit (LOD) | Dilution | Prepared | Analyzed | Analyst |
| Volatile Organics by EPA TO-15 (G | C/MS) Pi | repared by | y TO-15 P | rep (continued) | | | | | |
| Freon 114 | ND | | ug/m³ | 1.40 | 1.40 | 1 | 09/17/21 | 09/18/21 06:02 | CMK |
| n-Heptane | 0.33 | J | ug/m³ | 0.82 | 0.21 | 1 | 09/17/21 | 09/18/21 06:02 | CMK |
| Hexachlorobutadiene | ND | | ug/m³ | 2.10 | 2.10 | 1 | 09/17/21 | 09/18/21 06:02 | CMK |
| Hexane | ND | | ug/m³ | 14.0 | 14.0 | 1 | 09/17/21 | 09/18/21 06:02 | CMK |
| 2-Hexanone | 0.20 | J | ug/m³ | 0.82 | 0.15 | 1 | 09/17/21 | 09/18/21 06:02 | CMK |
| Isopropylbenzene (Cumene) | ND | | ug/m³ | 1.10 | 0.40 | 1 | 09/17/21 | 09/18/21 06:02 | CMK |
| Methyl tert-butyl ether (MTBE) | ND | | ug/m³ | 0.72 | 0.21 | 1 | 09/17/21 | 09/18/21 06:02 | CMK |
| Methylene chloride | ND | | ug/m³ | 18.0 | 18.0 | 1 | 09/17/21 | 09/18/21 06:02 | CMK |
| Methyl ethyl ketone (2-Butanone) | 1.27 | | ug/m³ | 0.59 | 0.34 | 1 | 09/17/21 | 09/18/21 06:02 | CMK |
| Methyl isobutyl ketone | ND | | ug/m³ | 0.82 | 0.82 | 1 | 09/17/21 | 09/18/21 06:02 | CMK |
| Naphthalene | ND | | ug/m³ | 1.10 | 0.70 | 1 | 09/17/21 | 09/18/21 06:02 | CMK |
| Propene | ND | | ug/m³ | 0.34 | 0.34 | 1 | 09/17/21 | 09/18/21 06:02 | CMK |
| n-Propylbenzene | ND | | ug/m³ | 0.98 | 0.40 | 1 | 09/17/21 | 09/18/21 06:02 | CMK |
| Styrene | 0.26 | J | ug/m³ | 0.85 | 0.15 | 1 | 09/17/21 | 09/18/21 06:02 | CMK |
| 1,1,2,2-Tetrachloroethane | ND | | ug/m³ | 1.40 | 0.35 | 1 | 09/17/21 | 09/18/21 06:02 | CMK |
| Tetrachloroethene | ND | | ug/m³ | 1.40 | 0.70 | 1 | 09/17/21 | 09/18/21 06:02 | CMK |
| Tetrahydrofuran | 0.29 | J | ug/m³ | 0.59 | 0.15 | 1 | 09/17/21 | 09/18/21 06:02 | CMK |
| Toluene | 2.34 | | ug/m³ | 0.75 | 0.35 | 1 | 09/17/21 | 09/18/21 06:02 | CMK |
| 1,2,4-Trichlorobenzene | ND | | ug/m³ | 1.50 | 0.38 | 1 | 09/17/21 | 09/18/21 06:02 | CMK |
| 1,1,1-Trichloroethane | ND | | ug/m³ | 1.10 | 0.28 | 1 | 09/17/21 | 09/18/21 06:02 | CMK |
| 1,1,2-Trichloroethane | ND | | ug/m³ | 1.10 | 0.28 | 1 | 09/17/21 | 09/18/21 06:02 | CMK |
| Trichloroethene | ND | | ug/m³ | 1.10 | 0.28 | 1 | 09/17/21 | 09/18/21 06:02 | CMK |
| Trichlorofluoromethane (Freon 11) | 1.24 | | ug/m³ | 1.10 | 0.28 | 1 | 09/17/21 | 09/18/21 06:02 | CMK |
| 1,2,4-Trimethylbenzene | ND | | ug/m³ | 0.98 | 0.25 | 1 | 09/17/21 | 09/18/21 06:02 | CMK |
| 1,3,5-Trimethylbenzene | ND | | ug/m³ | 0.98 | 0.25 | 1 | 09/17/21 | 09/18/21 06:02 | CMK |
| 2,2,4-Trimethylpentane | 0.33 | J | ug/m³ | 0.93 | 0.23 | 1 | 09/17/21 | 09/18/21 06:02 | CMK |
| Vinyl acetate | ND | | ug/m³ | 0.70 | 0.70 | 1 | 09/17/21 | 09/18/21 06:02 | CMK |
| Vinyl bromide | ND | | ug/m³ | 0.87 | 0.22 | 1 | 09/17/21 | 09/18/21 06:02 | CMK |
| Vinyl chloride | ND | | ug/m³ | 0.51 | 0.13 | 1 | 09/17/21 | 09/18/21 06:02 | CMK |
| o-Xylene | 0.26 | J | ug/m³ | 0.87 | 0.22 | 1 | 09/17/21 | 09/18/21 06:02 | CMK |
| m- & p-Xylenes | 0.56 | J | ug/m³ | 1.70 | 0.43 | 1 | 09/17/21 | 09/18/21 06:02 | CMK |
| Surrogate: 4-Bromofluorobenzene | | 73 | -115 | 96 % | 09/17/21 | | 09/18/21 06:02 | | |

Withut

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Will Brewington, President

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Page 17 of 43

Version 1.000

Page 14 of 36

Maryland **spectral** Services



Project: 4920002

Project Number: [none] Project Manager: Amber Confer 1500 Caton Center Dr Suite G Baltimore MD 21227 410-247-7600 www.mdspectral.com

Reported:

09/21/21 10:46

JP-33 CLASS 21091322-007 1091424-07 (Vapor) Sample Date: 09/09/21

| | | | | Reporting | Detection | | | | |
|-----------------------------------|----------|-----------|-----------|-------------|-------------|----------|----------|----------------|---------|
| Analyte | Result | Notes | Units | Limit (MRL) | Limit (LOD) | Dilution | Prepared | Analyzed | Analyst |
| Volatile Organics by EPA TO-15 (G | C/MS) Pi | repared b | y TO-15 F | Prep | | | | | |
| Acetone | 18.7 | | ug/m³ | 2.40 | 2.40 | 1 | 09/17/21 | 09/18/21 06:36 | CMK |
| Benzene | 0.26 | J | ug/m³ | 0.64 | 0.16 | 1 | 09/17/21 | 09/18/21 06:36 | CMK |
| Benzyl chloride | ND | | ug/m³ | 1.00 | 0.25 | 1 | 09/17/21 | 09/18/21 06:36 | CMK |
| Bromodichloromethane | ND | | ug/m³ | 1.30 | 0.33 | 1 | 09/17/21 | 09/18/21 06:36 | CMK |
| Bromoform | ND | | ug/m³ | 2.10 | 0.53 | 1 | 09/17/21 | 09/18/21 06:36 | CMK |
| Bromomethane | ND | | ug/m³ | 0.78 | 0.20 | 1 | 09/17/21 | 09/18/21 06:36 | CMK |
| 1,3-Butadiene | ND | | ug/m³ | 0.44 | 0.44 | 1 | 09/17/21 | 09/18/21 06:36 | CMK |
| Carbon disulfide | ND | | ug/m³ | 1.56 | 1.56 | 1 | 09/17/21 | 09/18/21 06:36 | CMK |
| Carbon tetrachloride | 0.50 | J | ug/m³ | 1.30 | 0.33 | 1 | 09/17/21 | 09/18/21 06:36 | CMK |
| Chlorobenzene | ND | | ug/m³ | 0.92 | 0.23 | 1 | 09/17/21 | 09/18/21 06:36 | CMK |
| Chloroethane | ND | | ug/m³ | 0.53 | 0.27 | 1 | 09/17/21 | 09/18/21 06:36 | CMK |
| Chloroform | 0.88 | J | ug/m³ | 0.97 | 0.24 | 1 | 09/17/21 | 09/18/21 06:36 | CMK |
| Chloromethane | 1.03 | | ug/m³ | 0.41 | 0.10 | 1 | 09/17/21 | 09/18/21 06:36 | CMK |
| 3-Chloropropene | ND | | ug/m³ | 0.63 | 0.16 | 1 | 09/17/21 | 09/18/21 06:36 | CMK |
| Cyclohexane | ND | | ug/m³ | 0.69 | 0.17 | 1 | 09/17/21 | 09/18/21 06:36 | CMK |
| Dibromochloromethane | ND | | ug/m³ | 1.30 | 0.33 | 1 | 09/17/21 | 09/18/21 06:36 | CMK |
| 1,2-Dibromoethane (EDB) | ND | | ug/m³ | 1.40 | 0.35 | 1 | 09/17/21 | 09/18/21 06:36 | CMK |
| 1,2-Dichlorobenzene | ND | | ug/m³ | 1.20 | 0.30 | 1 | 09/17/21 | 09/18/21 06:36 | CMK |
| 1,3-Dichlorobenzene | ND | | ug/m³ | 1.20 | 0.30 | 1 | 09/17/21 | 09/18/21 06:36 | CMK |
| 1,4-Dichlorobenzene | ND | | ug/m³ | 1.20 | 0.30 | 1 | 09/17/21 | 09/18/21 06:36 | CMK |
| Dichlorodifluoromethane | 2.27 | | ug/m³ | 0.99 | 0.99 | 1 | 09/17/21 | 09/18/21 06:36 | CMK |
| 1,1-Dichloroethane | ND | | ug/m³ | 0.81 | 0.20 | 1 | 09/17/21 | 09/18/21 06:36 | CMK |
| 1,2-Dichloroethane | ND | | ug/m³ | 0.81 | 0.20 | 1 | 09/17/21 | 09/18/21 06:36 | CMK |
| 1,1-Dichloroethene | ND | | ug/m³ | 0.79 | 0.20 | 1 | 09/17/21 | 09/18/21 06:36 | CMK |
| cis-1,2-Dichloroethene | ND | | ug/m³ | 0.79 | 0.20 | 1 | 09/17/21 | 09/18/21 06:36 | CMK |
| trans-1,2-Dichloroethene | ND | | ug/m³ | 0.79 | 0.20 | 1 | 09/17/21 | 09/18/21 06:36 | CMK |
| 1,2-Dichloropropane | ND | | ug/m³ | 0.92 | 0.23 | 1 | 09/17/21 | 09/18/21 06:36 | CMK |
| cis-1,3-Dichloropropene | ND | | ug/m³ | 0.91 | 0.23 | 1 | 09/17/21 | 09/18/21 06:36 | CMK |
| trans-1,3-Dichloropropene | ND | | ug/m³ | 0.91 | 0.23 | 1 | 09/17/21 | 09/18/21 06:36 | CMK |
| 1,4-Dioxane | ND | | ug/m³ | 0.72 | 0.18 | 1 | 09/17/21 | 09/18/21 06:36 | CMK |
| Ethyl acetate | ND | | ug/m³ | 3.60 | 3.60 | 1 | 09/17/21 | 09/18/21 06:36 | CMK |
| Ethylbenzene | ND | | ug/m³ | 0.87 | 0.22 | 1 | 09/17/21 | 09/18/21 06:36 | CMK |
| 4-Ethyltoluene | ND | | ug/m³ | 0.98 | 0.25 | 1 | 09/17/21 | 09/18/21 06:36 | CMK |
| Freon 113 | 0.46 | J | ug/m³ | 1.50 | 0.38 | 1 | 09/17/21 | 09/18/21 06:36 | CMK |

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Page 18 of 43

Maryland **spectral** Services



Project: 4920002

Project Number: [none] Project Manager: Amber Confer 1500 Caton Center Dr Suite G Baltimore MD 21227 410-247-7600 www.mdspectral.com

Reported:

09/21/21 10:46

JP-33 CLASS 21091322-007 1091424-07 (Vapor) Sample Date: 09/09/21

| | | | | Reporting | Detection | | | | |
|-----------------------------------|-----------|-----------|-------------------|------------------|-------------|----------|----------------|----------------|---------|
| Analyte | Result | Notes | Units | Limit (MRL) | Limit (LOD) | Dilution | Prepared | Analyzed | Analyst |
| Volatile Organics by EPA TO-15 (C | GC/MS) Pi | repared b | y TO-15 F | Prep (continued) | | | | | |
| Freon 114 | ND | | ug/m³ | 1.40 | 1.40 | 1 | 09/17/21 | 09/18/21 06:36 | CMK |
| n-Heptane | ND | | ug/m³ | 0.82 | 0.21 | 1 | 09/17/21 | 09/18/21 06:36 | CMK |
| Hexachlorobutadiene | ND | | ug/m³ | 2.10 | 2.10 | 1 | 09/17/21 | 09/18/21 06:36 | CMK |
| Hexane | ND | | ug/m³ | 14.0 | 14.0 | 1 | 09/17/21 | 09/18/21 06:36 | CMK |
| 2-Hexanone | 0.16 | J | ug/m³ | 0.82 | 0.15 | 1 | 09/17/21 | 09/18/21 06:36 | CMK |
| Isopropylbenzene (Cumene) | ND | | ug/m³ | 1.10 | 0.40 | 1 | 09/17/21 | 09/18/21 06:36 | CMK |
| Methyl tert-butyl ether (MTBE) | ND | | ug/m ³ | 0.72 | 0.21 | 1 | 09/17/21 | 09/18/21 06:36 | CMK |
| Methylene chloride | ND | | ug/m³ | 18.0 | 18.0 | 1 | 09/17/21 | 09/18/21 06:36 | CMK |
| Methyl ethyl ketone (2-Butanone) | 0.97 | | ug/m³ | 0.59 | 0.34 | 1 | 09/17/21 | 09/18/21 06:36 | CMK |
| Methyl isobutyl ketone | ND | | ug/m³ | 0.82 | 0.82 | 1 | 09/17/21 | 09/18/21 06:36 | CMK |
| Naphthalene | ND | | ug/m³ | 1.10 | 0.70 | 1 | 09/17/21 | 09/18/21 06:36 | CMK |
| Propene | ND | | ug/m ³ | 0.34 | 0.34 | 1 | 09/17/21 | 09/18/21 06:36 | CMK |
| n-Propylbenzene | ND | | ug/m ³ | 0.98 | 0.40 | 1 | 09/17/21 | 09/18/21 06:36 | CMK |
| Styrene | ND | | ug/m³ | 0.85 | 0.15 | 1 | 09/17/21 | 09/18/21 06:36 | CMK |
| 1,1,2,2-Tetrachloroethane | ND | | ug/m ³ | 1.40 | 0.35 | 1 | 09/17/21 | 09/18/21 06:36 | CMK |
| Tetrachloroethene | 1.97 | | ug/m³ | 1.40 | 0.70 | 1 | 09/17/21 | 09/18/21 06:36 | CMK |
| Tetrahydrofuran | 0.18 | J | ug/m³ | 0.59 | 0.15 | 1 | 09/17/21 | 09/18/21 06:36 | CMK |
| Toluene | 2.68 | | ug/m³ | 0.75 | 0.35 | 1 | 09/17/21 | 09/18/21 06:36 | CMK |
| 1,2,4-Trichlorobenzene | ND | | ug/m³ | 1.50 | 0.38 | 1 | 09/17/21 | 09/18/21 06:36 | CMK |
| 1,1,1-Trichloroethane | ND | | ug/m³ | 1.10 | 0.28 | 1 | 09/17/21 | 09/18/21 06:36 | CMK |
| 1,1,2-Trichloroethane | ND | | ug/m³ | 1.10 | 0.28 | 1 | 09/17/21 | 09/18/21 06:36 | CMK |
| Trichloroethene | ND | | ug/m³ | 1.10 | 0.28 | 1 | 09/17/21 | 09/18/21 06:36 | CMK |
| Trichlorofluoromethane (Freon 11) | 1.35 | | ug/m³ | 1.10 | 0.28 | 1 | 09/17/21 | 09/18/21 06:36 | CMK |
| 1,2,4-Trimethylbenzene | ND | | ug/m³ | 0.98 | 0.25 | 1 | 09/17/21 | 09/18/21 06:36 | CMK |
| 1,3,5-Trimethylbenzene | ND | | ug/m³ | 0.98 | 0.25 | 1 | 09/17/21 | 09/18/21 06:36 | CMK |
| 2,2,4-Trimethylpentane | ND | | ug/m³ | 0.93 | 0.23 | 1 | 09/17/21 | 09/18/21 06:36 | CMK |
| Vinyl acetate | ND | | ug/m³ | 0.70 | 0.70 | 1 | 09/17/21 | 09/18/21 06:36 | CMK |
| Vinyl bromide | ND | | ug/m³ | 0.87 | 0.22 | 1 | 09/17/21 | 09/18/21 06:36 | CMK |
| Vinyl chloride | ND | | ug/m³ | 0.51 | 0.13 | 1 | 09/17/21 | 09/18/21 06:36 | CMK |
| o-Xylene | ND | | ug/m³ | 0.87 | 0.22 | 1 | 09/17/21 | 09/18/21 06:36 | CMK |
| m- & p-Xylenes | 0.52 | J | ug/m³ | 1.70 | 0.43 | 1 | 09/17/21 | 09/18/21 06:36 | CMK |
| Surrogate: 4-Bromofluorobenzene | | 7 | 3-115 | 95 % | 09/17/21 | | 09/18/21 06:36 | | |
| | | | | | | | | | |

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Page 19 of 43

Maryland **spectral** Services



Project: 4920002

Project Number: [none] Project Manager: Amber Confer 1500 Caton Center Dr Suite G Baltimore MD 21227 410-247-7600 www.mdspectral.com

Reported:

09/21/21 10:46

JP-26 CLASS 21091322-008 1091424-08 (Vapor) Sample Date: 09/09/21

| | | | | Reporting | Detection | | | | |
|--------------------------------|--------|----------|-------------------|-------------|-------------|----------|----------|----------------|---------|
| Analyte | Result | Notes | Units | Limit (MRL) | Limit (LOD) | Dilution | Prepared | Analyzed | Analyst |
| Volatile Organics by EPA TO-15 | | | | () | () | | 1 | | |
| Acetone | 16.7 | -parea b | ug/m ³ | 2.40 | 2.40 | 1 | 09/17/21 | 09/18/21 07:10 | СМК |
| Benzene | 0.29 | J | ug/m³ | 0.64 | 0.16 | 1 | 09/17/21 | 09/18/21 07:10 | CMK |
| Benzyl chloride | ND | | ug/m³ | 1.00 | 0.25 | 1 | 09/17/21 | 09/18/21 07:10 | CMK |
| Bromodichloromethane | ND | | ug/m³ | 1.30 | 0.33 | 1 | 09/17/21 | 09/18/21 07:10 | CMK |
| Bromoform | ND | | ug/m³ | 2.10 | 0.53 | 1 | 09/17/21 | 09/18/21 07:10 | CMK |
| Bromomethane | ND | | ug/m³ | 0.78 | 0.20 | 1 | 09/17/21 | 09/18/21 07:10 | CMK |
| 1,3-Butadiene | ND | | ug/m³ | 0.44 | 0.44 | 1 | 09/17/21 | 09/18/21 07:10 | CMK |
| Carbon disulfide | ND | | ug/m³ | 1.56 | 1.56 | 1 | 09/17/21 | 09/18/21 07:10 | CMK |
| Carbon tetrachloride | 0.50 | J | ug/m³ | 1.30 | 0.33 | 1 | 09/17/21 | 09/18/21 07:10 | CMK |
| Chlorobenzene | ND | | ug/m³ | 0.92 | 0.23 | 1 | 09/17/21 | 09/18/21 07:10 | СМК |
| Chloroethane | ND | | ug/m³ | 0.53 | 0.27 | 1 | 09/17/21 | 09/18/21 07:10 | CMK |
| Chloroform | 1.61 | | ug/m³ | 0.97 | 0.24 | 1 | 09/17/21 | 09/18/21 07:10 | CMK |
| Chloromethane | 1.03 | | ug/m³ | 0.41 | 0.10 | 1 | 09/17/21 | 09/18/21 07:10 | CMK |
| 3-Chloropropene | ND | | ug/m³ | 0.63 | 0.16 | 1 | 09/17/21 | 09/18/21 07:10 | CMK |
| Cyclohexane | ND | | ug/m³ | 0.69 | 0.17 | 1 | 09/17/21 | 09/18/21 07:10 | CMK |
| Dibromochloromethane | ND | | ug/m³ | 1.30 | 0.33 | 1 | 09/17/21 | 09/18/21 07:10 | CMK |
| 1,2-Dibromoethane (EDB) | ND | | ug/m³ | 1.40 | 0.35 | 1 | 09/17/21 | 09/18/21 07:10 | CMK |
| 1,2-Dichlorobenzene | ND | | ug/m³ | 1.20 | 0.30 | 1 | 09/17/21 | 09/18/21 07:10 | CMK |
| 1,3-Dichlorobenzene | ND | | ug/m³ | 1.20 | 0.30 | 1 | 09/17/21 | 09/18/21 07:10 | CMK |
| 1,4-Dichlorobenzene | ND | | ug/m³ | 1.20 | 0.30 | 1 | 09/17/21 | 09/18/21 07:10 | CMK |
| Dichlorodifluoromethane | 2.32 | | ug/m³ | 0.99 | 0.99 | 1 | 09/17/21 | 09/18/21 07:10 | CMK |
| 1,1-Dichloroethane | ND | | ug/m³ | 0.81 | 0.20 | 1 | 09/17/21 | 09/18/21 07:10 | CMK |
| 1,2-Dichloroethane | ND | | ug/m³ | 0.81 | 0.20 | 1 | 09/17/21 | 09/18/21 07:10 | CMK |
| 1,1-Dichloroethene | ND | | ug/m³ | 0.79 | 0.20 | 1 | 09/17/21 | 09/18/21 07:10 | CMK |
| cis-1,2-Dichloroethene | ND | | ug/m³ | 0.79 | 0.20 | 1 | 09/17/21 | 09/18/21 07:10 | CMK |
| trans-1,2-Dichloroethene | ND | | ug/m³ | 0.79 | 0.20 | 1 | 09/17/21 | 09/18/21 07:10 | CMK |
| 1,2-Dichloropropane | ND | | ug/m³ | 0.92 | 0.23 | 1 | 09/17/21 | 09/18/21 07:10 | CMK |
| cis-1,3-Dichloropropene | ND | | ug/m³ | 0.91 | 0.23 | 1 | 09/17/21 | 09/18/21 07:10 | CMK |
| trans-1,3-Dichloropropene | ND | | ug/m³ | 0.91 | 0.23 | 1 | 09/17/21 | 09/18/21 07:10 | CMK |
| 1,4-Dioxane | ND | | ug/m³ | 0.72 | 0.18 | 1 | 09/17/21 | 09/18/21 07:10 | CMK |
| Ethyl acetate | ND | | ug/m³ | 3.60 | 3.60 | 1 | 09/17/21 | 09/18/21 07:10 | CMK |
| Ethylbenzene | ND | | ug/m³ | 0.87 | 0.22 | 1 | 09/17/21 | 09/18/21 07:10 | CMK |
| 4-Ethyltoluene | ND | | ug/m³ | 0.98 | 0.25 | 1 | 09/17/21 | 09/18/21 07:10 | CMK |
| Freon 113 | 0.46 | J | ug/m³ | 1.50 | 0.38 | 1 | 09/17/21 | 09/18/21 07:10 | CMK |

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Will Brewington, President

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Page 20 of 43

Maryland **spectral** Services



Project: 4920002

Project Number: [none] Project Manager: Amber Confer 1500 Caton Center Dr Suite G Baltimore MD 21227 410-247-7600 www.mdspectral.com

Reported:

09/21/21 10:46

JP-26 CLASS 21091322-008 1091424-08 (Vapor) Sample Date: 09/09/21

| | | | Reporting | Detection | | | | |
|-----------------------------------|-----------|-------------------|------------------|-------------|----------|----------------|----------------|---------|
| Analyte | Result | Notes Units | Limit (MRL) | Limit (LOD) | Dilution | Prepared | Analyzed | Analyst |
| Volatile Organics by EPA TO-15 (G | GC/MS) Pi | repared by TO-15 | Prep (continued) | | | | | |
| Freon 114 | ND | ug/m³ | 1.40 | 1.40 | 1 | 09/17/21 | 09/18/21 07:10 | CMK |
| n-Heptane | ND | ug/m³ | 0.82 | 0.21 | 1 | 09/17/21 | 09/18/21 07:10 | CMK |
| Hexachlorobutadiene | ND | ug/m³ | 2.10 | 2.10 | 1 | 09/17/21 | 09/18/21 07:10 | CMK |
| Hexane | ND | ug/m³ | 14.0 | 14.0 | 1 | 09/17/21 | 09/18/21 07:10 | CMK |
| 2-Hexanone | ND | ug/m ³ | 0.82 | 0.15 | 1 | 09/17/21 | 09/18/21 07:10 | CMK |
| Isopropylbenzene (Cumene) | ND | ug/m ³ | 1.10 | 0.40 | 1 | 09/17/21 | 09/18/21 07:10 | CMK |
| Methyl tert-butyl ether (MTBE) | ND | ug/m ³ | 0.72 | 0.21 | 1 | 09/17/21 | 09/18/21 07:10 | CMK |
| Methylene chloride | ND | ug/m ³ | 18.0 | 18.0 | 1 | 09/17/21 | 09/18/21 07:10 | CMK |
| Methyl ethyl ketone (2-Butanone) | 1.24 | ug/m³ | 0.59 | 0.34 | 1 | 09/17/21 | 09/18/21 07:10 | CMK |
| Methyl isobutyl ketone | ND | ug/m³ | 0.82 | 0.82 | 1 | 09/17/21 | 09/18/21 07:10 | CMK |
| Naphthalene | ND | ug/m³ | 1.10 | 0.70 | 1 | 09/17/21 | 09/18/21 07:10 | CMK |
| Propene | ND | ug/m³ | 0.34 | 0.34 | 1 | 09/17/21 | 09/18/21 07:10 | CMK |
| n-Propylbenzene | ND | ug/m³ | 0.98 | 0.40 | 1 | 09/17/21 | 09/18/21 07:10 | CMK |
| Styrene | ND | ug/m ³ | 0.85 | 0.15 | 1 | 09/17/21 | 09/18/21 07:10 | CMK |
| 1,1,2,2-Tetrachloroethane | ND | ug/m ³ | 1.40 | 0.35 | 1 | 09/17/21 | 09/18/21 07:10 | CMK |
| Tetrachloroethene | ND | ug/m ³ | 1.40 | 0.70 | 1 | 09/17/21 | 09/18/21 07:10 | CMK |
| Tetrahydrofuran | ND | ug/m ³ | 0.59 | 0.15 | 1 | 09/17/21 | 09/18/21 07:10 | CMK |
| Toluene | 10.7 | ug/m ³ | 0.75 | 0.35 | 1 | 09/17/21 | 09/18/21 07:10 | CMK |
| 1,2,4-Trichlorobenzene | ND | ug/m³ | 1.50 | 0.38 | 1 | 09/17/21 | 09/18/21 07:10 | CMK |
| 1,1,1-Trichloroethane | ND | ug/m³ | 1.10 | 0.28 | 1 | 09/17/21 | 09/18/21 07:10 | CMK |
| 1,1,2-Trichloroethane | ND | ug/m ³ | 1.10 | 0.28 | 1 | 09/17/21 | 09/18/21 07:10 | CMK |
| Trichloroethene | ND | ug/m ³ | 1.10 | 0.28 | 1 | 09/17/21 | 09/18/21 07:10 | CMK |
| Trichlorofluoromethane (Freon 11) | 1.29 | ug/m ³ | 1.10 | 0.28 | 1 | 09/17/21 | 09/18/21 07:10 | CMK |
| 1,2,4-Trimethylbenzene | ND | ug/m³ | 0.98 | 0.25 | 1 | 09/17/21 | 09/18/21 07:10 | CMK |
| 1,3,5-Trimethylbenzene | ND | ug/m³ | 0.98 | 0.25 | 1 | 09/17/21 | 09/18/21 07:10 | CMK |
| 2,2,4-Trimethylpentane | ND | ug/m³ | 0.93 | 0.23 | 1 | 09/17/21 | 09/18/21 07:10 | СМК |
| Vinyl acetate | ND | ug/m ³ | 0.70 | 0.70 | 1 | 09/17/21 | 09/18/21 07:10 | CMK |
| Vinyl bromide | ND | ug/m ³ | 0.87 | 0.22 | 1 | 09/17/21 | 09/18/21 07:10 | CMK |
| Vinyl chloride | ND | ug/m ³ | 0.51 | 0.13 | 1 | 09/17/21 | 09/18/21 07:10 | CMK |
| o-Xylene | ND | ug/m³ | 0.87 | 0.22 | 1 | 09/17/21 | 09/18/21 07:10 | CMK |
| m- & p-Xylenes | ND | ug/m ³ | 1.70 | 0.43 | 1 | 09/17/21 | 09/18/21 07:10 | CMK |
| Surrogate: 4-Bromofluorobenzene | | 73-115 | 96 % | 09/17/21 | ! | 09/18/21 07:10 | | |

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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Will Brewington, President

All analyses performed at Maryland Spectral Services included in the report are TNI certified except as indicated at the end of the report

Page 21 of 43

Maryland **spectral** Services



Analytical Results

Project: 4920002

Project Number: [none] Project Manager: Amber Confer 1500 Caton Center Dr Suite G Baltimore MD 21227 410-247-7600 www.mdspectral.com

Reported:

09/21/21 10:46

JP-MULTI PURPOSE 21091322-009 1091424-09 (Vapor) Sample Date: 09/09/21

| | | | | Reporting | Detection | | | | |
|------------------------------------|----------|------------|-------------------|-------------|-------------|----------|----------|----------------|---------|
| Analyte | Result | Notes | Units | Limit (MRL) | Limit (LOD) | Dilution | Prepared | Analyzed | Analyst |
| Volatile Organics by EPA TO-15 (Go | C/MS) Pi | repared by | y TO-15 F | rep | | | | | |
| Acetone | 19.9 | | ug/m³ | 2.40 | 2.40 | 1 | 09/17/21 | 09/18/21 07:44 | CMK |
| Benzene | 0.45 | J | ug/m³ | 0.64 | 0.16 | 1 | 09/17/21 | 09/18/21 07:44 | CMK |
| Benzyl chloride | ND | | ug/m³ | 1.00 | 0.25 | 1 | 09/17/21 | 09/18/21 07:44 | CMK |
| Bromodichloromethane | ND | | ug/m³ | 1.30 | 0.33 | 1 | 09/17/21 | 09/18/21 07:44 | CMK |
| Bromoform | ND | | ug/m³ | 2.10 | 0.53 | 1 | 09/17/21 | 09/18/21 07:44 | CMK |
| Bromomethane | ND | | ug/m³ | 0.78 | 0.20 | 1 | 09/17/21 | 09/18/21 07:44 | CMK |
| 1,3-Butadiene | ND | | ug/m³ | 0.44 | 0.44 | 1 | 09/17/21 | 09/18/21 07:44 | CMK |
| Carbon disulfide | ND | | ug/m³ | 1.56 | 1.56 | 1 | 09/17/21 | 09/18/21 07:44 | CMK |
| Carbon tetrachloride | 0.44 | J | ug/m³ | 1.30 | 0.33 | 1 | 09/17/21 | 09/18/21 07:44 | CMK |
| Chlorobenzene | ND | | ug/m³ | 0.92 | 0.23 | 1 | 09/17/21 | 09/18/21 07:44 | CMK |
| Chloroethane | ND | | ug/m³ | 0.53 | 0.27 | 1 | 09/17/21 | 09/18/21 07:44 | CMK |
| Chloroform | 1.12 | | ug/m³ | 0.97 | 0.24 | 1 | 09/17/21 | 09/18/21 07:44 | CMK |
| Chloromethane | 1.09 | | ug/m³ | 0.41 | 0.10 | 1 | 09/17/21 | 09/18/21 07:44 | CMK |
| 3-Chloropropene | ND | | ug/m³ | 0.63 | 0.16 | 1 | 09/17/21 | 09/18/21 07:44 | CMK |
| Cyclohexane | ND | | ug/m³ | 0.69 | 0.17 | 1 | 09/17/21 | 09/18/21 07:44 | CMK |
| Dibromochloromethane | ND | | ug/m³ | 1.30 | 0.33 | 1 | 09/17/21 | 09/18/21 07:44 | CMK |
| 1,2-Dibromoethane (EDB) | ND | | ug/m³ | 1.40 | 0.35 | 1 | 09/17/21 | 09/18/21 07:44 | CMK |
| 1,2-Dichlorobenzene | ND | | ug/m³ | 1.20 | 0.30 | 1 | 09/17/21 | 09/18/21 07:44 | CMK |
| 1,3-Dichlorobenzene | ND | | ug/m³ | 1.20 | 0.30 | 1 | 09/17/21 | 09/18/21 07:44 | CMK |
| 1,4-Dichlorobenzene | ND | | ug/m³ | 1.20 | 0.30 | 1 | 09/17/21 | 09/18/21 07:44 | CMK |
| Dichlorodifluoromethane | 2.23 | | ug/m³ | 0.99 | 0.99 | 1 | 09/17/21 | 09/18/21 07:44 | CMK |
| 1,1-Dichloroethane | ND | | ug/m³ | 0.81 | 0.20 | 1 | 09/17/21 | 09/18/21 07:44 | CMK |
| 1,2-Dichloroethane | ND | | ug/m³ | 0.81 | 0.20 | 1 | 09/17/21 | 09/18/21 07:44 | CMK |
| 1,1-Dichloroethene | ND | | ug/m³ | 0.79 | 0.20 | 1 | 09/17/21 | 09/18/21 07:44 | CMK |
| cis-1,2-Dichloroethene | ND | | ug/m³ | 0.79 | 0.20 | 1 | 09/17/21 | 09/18/21 07:44 | CMK |
| trans-1,2-Dichloroethene | ND | | ug/m³ | 0.79 | 0.20 | 1 | 09/17/21 | 09/18/21 07:44 | CMK |
| 1,2-Dichloropropane | ND | | ug/m³ | 0.92 | 0.23 | 1 | 09/17/21 | 09/18/21 07:44 | CMK |
| cis-1,3-Dichloropropene | ND | | ug/m³ | 0.91 | 0.23 | 1 | 09/17/21 | 09/18/21 07:44 | CMK |
| trans-1,3-Dichloropropene | ND | | ug/m³ | 0.91 | 0.23 | 1 | 09/17/21 | 09/18/21 07:44 | CMK |
| 1,4-Dioxane | ND | | ug/m³ | 0.72 | 0.18 | 1 | 09/17/21 | 09/18/21 07:44 | CMK |
| Ethyl acetate | ND | | ug/m³ | 3.60 | 3.60 | 1 | 09/17/21 | 09/18/21 07:44 | CMK |
| Ethylbenzene | 0.26 | J | ug/m ³ | 0.87 | 0.22 | 1 | 09/17/21 | 09/18/21 07:44 | CMK |
| 4-Ethyltoluene | ND | | ug/m³ | 0.98 | 0.25 | 1 | 09/17/21 | 09/18/21 07:44 | CMK |
| Freon 113 | 0.46 | J | ug/m³ | 1.50 | 0.38 | 1 | 09/17/21 | 09/18/21 07:44 | CMK |

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Will Brewington, President

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Page 22 of 43

Maryland **spectral** Services



410-247-7600

Analytical Results

Project: 4920002

Project Number: [none] Project Manager: Amber Confer 1500 Caton Center Dr Suite G Baltimore MD 21227 www.mdspectral.com

Reported:

09/21/21 10:46

JP-MULTI PURPOSE 21091322-009 1091424-09 (Vapor) Sample Date: 09/09/21

| | | | | Reporting | Detection | | | | |
|-----------------------------------|-----------|-----------|-------------------|-----------------|-------------|----------|----------------|----------------|---------|
| Analyte | Result | Notes | Units | Limit (MRL) | Limit (LOD) | Dilution | Prepared | Analyzed | Analyst |
| Volatile Organics by EPA TO-15 (C | GC/MS) Pi | repared b | y TO-15 P | rep (continued) | | | | | |
| Freon 114 | ND | | ug/m³ | 1.40 | 1.40 | 1 | 09/17/21 | 09/18/21 07:44 | CMK |
| n-Heptane | ND | | ug/m³ | 0.82 | 0.21 | 1 | 09/17/21 | 09/18/21 07:44 | CMK |
| Hexachlorobutadiene | ND | | ug/m³ | 2.10 | 2.10 | 1 | 09/17/21 | 09/18/21 07:44 | CMK |
| Hexane | ND | | ug/m³ | 14.0 | 14.0 | 1 | 09/17/21 | 09/18/21 07:44 | CMK |
| 2-Hexanone | 0.29 | J | ug/m³ | 0.82 | 0.15 | 1 | 09/17/21 | 09/18/21 07:44 | CMK |
| Isopropylbenzene (Cumene) | ND | | ug/m³ | 1.10 | 0.40 | 1 | 09/17/21 | 09/18/21 07:44 | CMK |
| Methyl tert-butyl ether (MTBE) | ND | | ug/m³ | 0.72 | 0.21 | 1 | 09/17/21 | 09/18/21 07:44 | СМК |
| Methylene chloride | ND | | ug/m³ | 18.0 | 18.0 | 1 | 09/17/21 | 09/18/21 07:44 | CMK |
| Methyl ethyl ketone (2-Butanone) | 1.98 | | ug/m³ | 0.59 | 0.34 | 1 | 09/17/21 | 09/18/21 07:44 | CMK |
| Methyl isobutyl ketone | ND | | ug/m³ | 0.82 | 0.82 | 1 | 09/17/21 | 09/18/21 07:44 | CMK |
| Naphthalene | ND | | ug/m³ | 1.10 | 0.70 | 1 | 09/17/21 | 09/18/21 07:44 | CMK |
| Propene | ND | | ug/m³ | 0.34 | 0.34 | 1 | 09/17/21 | 09/18/21 07:44 | CMK |
| n-Propylbenzene | ND | | ug/m³ | 0.98 | 0.40 | 1 | 09/17/21 | 09/18/21 07:44 | CMK |
| Styrene | 0.17 | J | ug/m³ | 0.85 | 0.15 | 1 | 09/17/21 | 09/18/21 07:44 | CMK |
| 1,1,2,2-Tetrachloroethane | ND | | ug/m³ | 1.40 | 0.35 | 1 | 09/17/21 | 09/18/21 07:44 | СМК |
| Tetrachloroethene | 0.75 | J | ug/m³ | 1.40 | 0.70 | 1 | 09/17/21 | 09/18/21 07:44 | CMK |
| Tetrahydrofuran | 0.21 | J | ug/m³ | 0.59 | 0.15 | 1 | 09/17/21 | 09/18/21 07:44 | CMK |
| Toluene | 2.37 | | ug/m³ | 0.75 | 0.35 | 1 | 09/17/21 | 09/18/21 07:44 | CMK |
| 1,2,4-Trichlorobenzene | ND | | ug/m ³ | 1.50 | 0.38 | 1 | 09/17/21 | 09/18/21 07:44 | CMK |
| 1,1,1-Trichloroethane | ND | | ug/m³ | 1.10 | 0.28 | 1 | 09/17/21 | 09/18/21 07:44 | CMK |
| 1,1,2-Trichloroethane | ND | | ug/m³ | 1.10 | 0.28 | 1 | 09/17/21 | 09/18/21 07:44 | CMK |
| Trichloroethene | ND | | ug/m ³ | 1.10 | 0.28 | 1 | 09/17/21 | 09/18/21 07:44 | CMK |
| Trichlorofluoromethane (Freon 11) | 1.29 | | ug/m³ | 1.10 | 0.28 | 1 | 09/17/21 | 09/18/21 07:44 | CMK |
| 1,2,4-Trimethylbenzene | ND | | ug/m³ | 0.98 | 0.25 | 1 | 09/17/21 | 09/18/21 07:44 | CMK |
| 1,3,5-Trimethylbenzene | ND | | ug/m³ | 0.98 | 0.25 | 1 | 09/17/21 | 09/18/21 07:44 | CMK |
| 2,2,4-Trimethylpentane | ND | | ug/m³ | 0.93 | 0.23 | 1 | 09/17/21 | 09/18/21 07:44 | CMK |
| Vinyl acetate | ND | | ug/m³ | 0.70 | 0.70 | 1 | 09/17/21 | 09/18/21 07:44 | CMK |
| Vinyl bromide | ND | | ug/m³ | 0.87 | 0.22 | 1 | 09/17/21 | 09/18/21 07:44 | CMK |
| Vinyl chloride | ND | | ug/m³ | 0.51 | 0.13 | 1 | 09/17/21 | 09/18/21 07:44 | CMK |
| o-Xylene | ND | | ug/m³ | 0.87 | 0.22 | 1 | 09/17/21 | 09/18/21 07:44 | CMK |
| m- & p-Xylenes | 0.61 | J | ug/m³ | 1.70 | 0.43 | 1 | 09/17/21 | 09/18/21 07:44 | CMK |
| Surrogate: 4-Bromofluorobenzene | | 7 | 3-115 | 94 % | 09/17/21 | | 09/18/21 07:44 | | |

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Page 23 of 43

Version 1.000

Page 20 of 36

Maryland **spectral** Services



Project: 4920002

Project Number: [none] Project Manager: Amber Confer 1500 Caton Center Dr Suite G Baltimore MD 21227 410-247-7600 www.mdspectral.com

Reported: 09/21/21 10:46

JP-GYM 21091322-010 1091424-10 (Vapor) Sample Date: 09/09/21

| | | | | Reporting | Detection | | | | |
|-----------------------------------|---------|------------|-----------|-------------|-------------|----------|----------|----------------|---------|
| Analyte | Result | Notes | Units | Limit (MRL) | Limit (LOD) | Dilution | Prepared | Analyzed | Analyst |
| Volatile Organics by EPA TO-15 (G | C/MS) P | repared by | y TO-15 I | Prep | | | | | |
| Acetone | 20.6 | | ug/m³ | 2.40 | 2.40 | 1 | 09/17/21 | 09/18/21 08:18 | СМК |
| Benzene | 0.38 | J | ug/m³ | 0.64 | 0.16 | 1 | 09/17/21 | 09/18/21 08:18 | CMK |
| Benzyl chloride | ND | | ug/m³ | 1.00 | 0.25 | 1 | 09/17/21 | 09/18/21 08:18 | CMK |
| Bromodichloromethane | ND | | ug/m³ | 1.30 | 0.33 | 1 | 09/17/21 | 09/18/21 08:18 | CMK |
| Bromoform | ND | | ug/m³ | 2.10 | 0.53 | 1 | 09/17/21 | 09/18/21 08:18 | CMK |
| Bromomethane | ND | | ug/m³ | 0.78 | 0.20 | 1 | 09/17/21 | 09/18/21 08:18 | CMK |
| 1,3-Butadiene | ND | | ug/m³ | 0.44 | 0.44 | 1 | 09/17/21 | 09/18/21 08:18 | CMK |
| Carbon disulfide | ND | | ug/m³ | 1.56 | 1.56 | 1 | 09/17/21 | 09/18/21 08:18 | CMK |
| Carbon tetrachloride | 0.44 | J | ug/m³ | 1.30 | 0.33 | 1 | 09/17/21 | 09/18/21 08:18 | СМК |
| Chlorobenzene | ND | | ug/m³ | 0.92 | 0.23 | 1 | 09/17/21 | 09/18/21 08:18 | CMK |
| Chloroethane | ND | | ug/m³ | 0.53 | 0.27 | 1 | 09/17/21 | 09/18/21 08:18 | CMK |
| Chloroform | 1.66 | | ug/m³ | 0.97 | 0.24 | 1 | 09/17/21 | 09/18/21 08:18 | CMK |
| Chloromethane | 1.05 | | ug/m³ | 0.41 | 0.10 | 1 | 09/17/21 | 09/18/21 08:18 | CMK |
| 3-Chloropropene | ND | | ug/m³ | 0.63 | 0.16 | 1 | 09/17/21 | 09/18/21 08:18 | CMK |
| Cyclohexane | ND | | ug/m³ | 0.69 | 0.17 | 1 | 09/17/21 | 09/18/21 08:18 | СМК |
| Dibromochloromethane | ND | | ug/m³ | 1.30 | 0.33 | 1 | 09/17/21 | 09/18/21 08:18 | СМК |
| 1,2-Dibromoethane (EDB) | ND | | ug/m³ | 1.40 | 0.35 | 1 | 09/17/21 | 09/18/21 08:18 | CMK |
| 1,2-Dichlorobenzene | ND | | ug/m³ | 1.20 | 0.30 | 1 | 09/17/21 | 09/18/21 08:18 | CMK |
| 1,3-Dichlorobenzene | ND | | ug/m³ | 1.20 | 0.30 | 1 | 09/17/21 | 09/18/21 08:18 | CMK |
| 1,4-Dichlorobenzene | ND | | ug/m³ | 1.20 | 0.30 | 1 | 09/17/21 | 09/18/21 08:18 | CMK |
| Dichlorodifluoromethane | 2.27 | | ug/m³ | 0.99 | 0.99 | 1 | 09/17/21 | 09/18/21 08:18 | CMK |
| 1,1-Dichloroethane | ND | | ug/m³ | 0.81 | 0.20 | 1 | 09/17/21 | 09/18/21 08:18 | CMK |
| 1,2-Dichloroethane | 0.40 | J | ug/m³ | 0.81 | 0.20 | 1 | 09/17/21 | 09/18/21 08:18 | CMK |
| 1,1-Dichloroethene | ND | | ug/m³ | 0.79 | 0.20 | 1 | 09/17/21 | 09/18/21 08:18 | СМК |
| cis-1,2-Dichloroethene | ND | | ug/m³ | 0.79 | 0.20 | 1 | 09/17/21 | 09/18/21 08:18 | CMK |
| trans-1,2-Dichloroethene | ND | | ug/m³ | 0.79 | 0.20 | 1 | 09/17/21 | 09/18/21 08:18 | CMK |
| 1,2-Dichloropropane | ND | | ug/m³ | 0.92 | 0.23 | 1 | 09/17/21 | 09/18/21 08:18 | CMK |
| cis-1,3-Dichloropropene | ND | | ug/m³ | 0.91 | 0.23 | 1 | 09/17/21 | 09/18/21 08:18 | CMK |
| trans-1,3-Dichloropropene | ND | | ug/m³ | 0.91 | 0.23 | 1 | 09/17/21 | 09/18/21 08:18 | CMK |
| 1,4-Dioxane | ND | | ug/m³ | 0.72 | 0.18 | 1 | 09/17/21 | 09/18/21 08:18 | СМК |
| Ethyl acetate | ND | | ug/m³ | 3.60 | 3.60 | 1 | 09/17/21 | 09/18/21 08:18 | СМК |
| Ethylbenzene | ND | | ug/m³ | 0.87 | 0.22 | 1 | 09/17/21 | 09/18/21 08:18 | CMK |
| 4-Ethyltoluene | ND | | ug/m³ | 0.98 | 0.25 | 1 | 09/17/21 | 09/18/21 08:18 | CMK |
| Freon 113 | 0.54 | J | ug/m³ | 1.50 | 0.38 | 1 | 09/17/21 | 09/18/21 08:18 | СМК |

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Will Brewington, President

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Page 24 of 43

Maryland **spectral** Services



Analytical Results

Project: 4920002

Project Number: [none] Project Manager: Amber Confer 1500 Caton Center Dr Suite G Baltimore MD 21227 410-247-7600 www.mdspectral.com

Reported:

09/21/21 10:46

JP-GYM 21091322-010 1091424-10 (Vapor) Sample Date: 09/09/21

| | | | | Reporting | Detection | | | | |
|-----------------------------------|----------|------------|-------------------|-----------------|-------------|----------|----------------|----------------|---------|
| Analyte | Result | Notes | Units | Limit (MRL) | Limit (LOD) | Dilution | Prepared | Analyzed | Analyst |
| Volatile Organics by EPA TO-15 (G | C/MS) Pi | repared by | y TO-15 P | rep (continued) | | | | | |
| Freon 114 | ND | | ug/m³ | 1.40 | 1.40 | 1 | 09/17/21 | 09/18/21 08:18 | CMK |
| n-Heptane | 0.25 | J | ug/m³ | 0.82 | 0.21 | 1 | 09/17/21 | 09/18/21 08:18 | CMK |
| Hexachlorobutadiene | ND | | ug/m³ | 2.10 | 2.10 | 1 | 09/17/21 | 09/18/21 08:18 | CMK |
| Hexane | ND | | ug/m³ | 14.0 | 14.0 | 1 | 09/17/21 | 09/18/21 08:18 | CMK |
| 2-Hexanone | 0.20 | J | ug/m³ | 0.82 | 0.15 | 1 | 09/17/21 | 09/18/21 08:18 | CMK |
| Isopropylbenzene (Cumene) | ND | | ug/m³ | 1.10 | 0.40 | 1 | 09/17/21 | 09/18/21 08:18 | CMK |
| Methyl tert-butyl ether (MTBE) | ND | | ug/m³ | 0.72 | 0.21 | 1 | 09/17/21 | 09/18/21 08:18 | CMK |
| Methylene chloride | ND | | ug/m³ | 18.0 | 18.0 | 1 | 09/17/21 | 09/18/21 08:18 | CMK |
| Methyl ethyl ketone (2-Butanone) | 1.15 | | ug/m³ | 0.59 | 0.34 | 1 | 09/17/21 | 09/18/21 08:18 | CMK |
| Methyl isobutyl ketone | ND | | ug/m³ | 0.82 | 0.82 | 1 | 09/17/21 | 09/18/21 08:18 | CMK |
| Naphthalene | 0.79 | J | ug/m³ | 1.10 | 0.70 | 1 | 09/17/21 | 09/18/21 08:18 | CMK |
| Propene | ND | | ug/m³ | 0.34 | 0.34 | 1 | 09/17/21 | 09/18/21 08:18 | CMK |
| n-Propylbenzene | ND | | ug/m³ | 0.98 | 0.40 | 1 | 09/17/21 | 09/18/21 08:18 | CMK |
| Styrene | 0.26 | J | ug/m³ | 0.85 | 0.15 | 1 | 09/17/21 | 09/18/21 08:18 | СМК |
| 1,1,2,2-Tetrachloroethane | ND | | ug/m³ | 1.40 | 0.35 | 1 | 09/17/21 | 09/18/21 08:18 | CMK |
| Tetrachloroethene | ND | | ug/m³ | 1.40 | 0.70 | 1 | 09/17/21 | 09/18/21 08:18 | CMK |
| Tetrahydrofuran | 0.32 | J | ug/m³ | 0.59 | 0.15 | 1 | 09/17/21 | 09/18/21 08:18 | CMK |
| Toluene | 2.34 | | ug/m³ | 0.75 | 0.35 | 1 | 09/17/21 | 09/18/21 08:18 | CMK |
| 1,2,4-Trichlorobenzene | ND | | ug/m³ | 1.50 | 0.38 | 1 | 09/17/21 | 09/18/21 08:18 | CMK |
| 1,1,1-Trichloroethane | ND | | ug/m³ | 1.10 | 0.28 | 1 | 09/17/21 | 09/18/21 08:18 | CMK |
| 1,1,2-Trichloroethane | ND | | ug/m³ | 1.10 | 0.28 | 1 | 09/17/21 | 09/18/21 08:18 | CMK |
| Trichloroethene | ND | | ug/m³ | 1.10 | 0.28 | 1 | 09/17/21 | 09/18/21 08:18 | CMK |
| Trichlorofluoromethane (Freon 11) | 1.29 | | ug/m³ | 1.10 | 0.28 | 1 | 09/17/21 | 09/18/21 08:18 | CMK |
| 1,2,4-Trimethylbenzene | ND | | ug/m³ | 0.98 | 0.25 | 1 | 09/17/21 | 09/18/21 08:18 | CMK |
| 1,3,5-Trimethylbenzene | ND | | ug/m³ | 0.98 | 0.25 | 1 | 09/17/21 | 09/18/21 08:18 | CMK |
| 2,2,4-Trimethylpentane | ND | | ug/m³ | 0.93 | 0.23 | 1 | 09/17/21 | 09/18/21 08:18 | CMK |
| Vinyl acetate | ND | | ug/m³ | 0.70 | 0.70 | 1 | 09/17/21 | 09/18/21 08:18 | CMK |
| Vinyl bromide | ND | | ug/m³ | 0.87 | 0.22 | 1 | 09/17/21 | 09/18/21 08:18 | CMK |
| Vinyl chloride | ND | | ug/m³ | 0.51 | 0.13 | 1 | 09/17/21 | 09/18/21 08:18 | СМК |
| o-Xylene | 0.26 | J | ug/m ³ | 0.87 | 0.22 | 1 | 09/17/21 | 09/18/21 08:18 | СМК |
| m- & p-Xylenes | 0.65 | J | ug/m³ | 1.70 | 0.43 | 1 | 09/17/21 | 09/18/21 08:18 | СМК |
| Surrogate: 4-Bromofluorobenzene | | 73 | 8-115 | 95 % | 09/17/21 | | 09/18/21 08:18 | | |

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Will Brewington, President

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Page 25 of 43

Version 1.000

Page 22 of 36

Maryland **spectral** Services



Project: 4920002

Project Number: [none] Project Manager: Amber Confer 1500 Caton Center Dr Suite G Baltimore MD 21227 410-247-7600 www.mdspectral.com

Reported:

09/21/21 10:46

JP-22 BAND 21091322-011 1091424-11 (Vapor) Sample Date: 09/09/21

| | | | | Reporting | Detection | | | | |
|--------------------------------|------------|-----------|------------------|-------------|-------------|----------|----------|----------------|---------|
| Analyte | Result | Notes | Units | Limit (MRL) | Limit (LOD) | Dilution | Prepared | Analyzed | Analyst |
| Volatile Organics by EPA TO-15 | (GC/MS) Pr | epared by | 7 TO-15 H | rep | | | | | |
| Acetone | 15.7 | | ug/m³ | 2.40 | 2.40 | 1 | 09/17/21 | 09/18/21 08:52 | СМК |
| Benzene | 0.29 | J | ug/m³ | 0.64 | 0.16 | 1 | 09/17/21 | 09/18/21 08:52 | CMK |
| Benzyl chloride | ND | | ug/m³ | 1.00 | 0.25 | 1 | 09/17/21 | 09/18/21 08:52 | CMK |
| Bromodichloromethane | ND | | ug/m³ | 1.30 | 0.33 | 1 | 09/17/21 | 09/18/21 08:52 | CMK |
| Bromoform | ND | | ug/m³ | 2.10 | 0.53 | 1 | 09/17/21 | 09/18/21 08:52 | CMK |
| Bromomethane | ND | | ug/m³ | 0.78 | 0.20 | 1 | 09/17/21 | 09/18/21 08:52 | CMK |
| 1,3-Butadiene | ND | | ug/m³ | 0.44 | 0.44 | 1 | 09/17/21 | 09/18/21 08:52 | CMK |
| Carbon disulfide | ND | | ug/m³ | 1.56 | 1.56 | 1 | 09/17/21 | 09/18/21 08:52 | CMK |
| Carbon tetrachloride | 0.44 | J | ug/m³ | 1.30 | 0.33 | 1 | 09/17/21 | 09/18/21 08:52 | CMK |
| Chlorobenzene | ND | | ug/m³ | 0.92 | 0.23 | 1 | 09/17/21 | 09/18/21 08:52 | СМК |
| Chloroethane | ND | | ug/m³ | 0.53 | 0.27 | 1 | 09/17/21 | 09/18/21 08:52 | CMK |
| Chloroform | 0.93 | J | ug/m³ | 0.97 | 0.24 | 1 | 09/17/21 | 09/18/21 08:52 | CMK |
| Chloromethane | 1.14 | | ug/m³ | 0.41 | 0.10 | 1 | 09/17/21 | 09/18/21 08:52 | CMK |
| 3-Chloropropene | ND | | ug/m³ | 0.63 | 0.16 | 1 | 09/17/21 | 09/18/21 08:52 | CMK |
| Cyclohexane | ND | | ug/m³ | 0.69 | 0.17 | 1 | 09/17/21 | 09/18/21 08:52 | CMK |
| Dibromochloromethane | ND | | ug/m³ | 1.30 | 0.33 | 1 | 09/17/21 | 09/18/21 08:52 | CMK |
| 1,2-Dibromoethane (EDB) | ND | | ug/m³ | 1.40 | 0.35 | 1 | 09/17/21 | 09/18/21 08:52 | СМК |
| 1,2-Dichlorobenzene | ND | | ug/m³ | 1.20 | 0.30 | 1 | 09/17/21 | 09/18/21 08:52 | CMK |
| 1,3-Dichlorobenzene | ND | | ug/m³ | 1.20 | 0.30 | 1 | 09/17/21 | 09/18/21 08:52 | CMK |
| 1,4-Dichlorobenzene | ND | | ug/m³ | 1.20 | 0.30 | 1 | 09/17/21 | 09/18/21 08:52 | CMK |
| Dichlorodifluoromethane | 2.27 | | ug/m³ | 0.99 | 0.99 | 1 | 09/17/21 | 09/18/21 08:52 | CMK |
| 1,1-Dichloroethane | ND | | ug/m³ | 0.81 | 0.20 | 1 | 09/17/21 | 09/18/21 08:52 | СМК |
| 1,2-Dichloroethane | ND | | ug/m³ | 0.81 | 0.20 | 1 | 09/17/21 | 09/18/21 08:52 | СМК |
| 1,1-Dichloroethene | ND | | ug/m³ | 0.79 | 0.20 | 1 | 09/17/21 | 09/18/21 08:52 | CMK |
| cis-1,2-Dichloroethene | ND | | ug/m³ | 0.79 | 0.20 | 1 | 09/17/21 | 09/18/21 08:52 | CMK |
| trans-1,2-Dichloroethene | ND | | ug/m³ | 0.79 | 0.20 | 1 | 09/17/21 | 09/18/21 08:52 | CMK |
| 1,2-Dichloropropane | ND | | ug/m³ | 0.92 | 0.23 | 1 | 09/17/21 | 09/18/21 08:52 | CMK |
| cis-1,3-Dichloropropene | ND | | ug/m³ | 0.91 | 0.23 | 1 | 09/17/21 | 09/18/21 08:52 | CMK |
| trans-1,3-Dichloropropene | ND | | ug/m³ | 0.91 | 0.23 | 1 | 09/17/21 | 09/18/21 08:52 | CMK |
| 1,4-Dioxane | ND | | ug/m³ | 0.72 | 0.18 | 1 | 09/17/21 | 09/18/21 08:52 | CMK |
| Ethyl acetate | ND | | ug/m³ | 3.60 | 3.60 | 1 | 09/17/21 | 09/18/21 08:52 | CMK |
| Ethylbenzene | 0.26 | J | ug/m³ | 0.87 | 0.22 | 1 | 09/17/21 | 09/18/21 08:52 | СМК |
| 4-Ethyltoluene | 0.29 | J | ug/m³ | 0.98 | 0.25 | 1 | 09/17/21 | 09/18/21 08:52 | CMK |
| Freon 113 | 0.54 | J | ug/m³ | 1.50 | 0.38 | 1 | 09/17/21 | 09/18/21 08:52 | CMK |
| | | | | | | | | | |

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Page 26 of 43

Maryland **spectral** Services



Project: 4920002

Project Number: [none] Project Manager: Amber Confer 1500 Caton Center Dr Suite G Baltimore MD 21227 410-247-7600 www.mdspectral.com

Reported:

09/21/21 10:46

JP-22 BAND 21091322-011 1091424-11 (Vapor) Sample Date: 09/09/21

| | | | | Reporting | Detection | | | | |
|-----------------------------------|-----------|-----------|-------------------|------------------|-------------|----------|----------------|----------------|---------|
| Analyte | Result | Notes | Units | Limit (MRL) | Limit (LOD) | Dilution | Prepared | Analyzed | Analyst |
| Volatile Organics by EPA TO-15 (G | GC/MS) Pi | repared b | y TO-15 F | Prep (continued) | | | | | |
| Freon 114 | ND | | ug/m³ | 1.40 | 1.40 | 1 | 09/17/21 | 09/18/21 08:52 | CMK |
| n-Heptane | ND | | ug/m³ | 0.82 | 0.21 | 1 | 09/17/21 | 09/18/21 08:52 | CMK |
| Hexachlorobutadiene | ND | | ug/m³ | 2.10 | 2.10 | 1 | 09/17/21 | 09/18/21 08:52 | CMK |
| Hexane | ND | | ug/m ³ | 14.0 | 14.0 | 1 | 09/17/21 | 09/18/21 08:52 | CMK |
| 2-Hexanone | 0.20 | J | ug/m³ | 0.82 | 0.15 | 1 | 09/17/21 | 09/18/21 08:52 | CMK |
| Isopropylbenzene (Cumene) | ND | | ug/m³ | 1.10 | 0.40 | 1 | 09/17/21 | 09/18/21 08:52 | CMK |
| Methyl tert-butyl ether (MTBE) | ND | | ug/m³ | 0.72 | 0.21 | 1 | 09/17/21 | 09/18/21 08:52 | CMK |
| Methylene chloride | ND | | ug/m³ | 18.0 | 18.0 | 1 | 09/17/21 | 09/18/21 08:52 | CMK |
| Methyl ethyl ketone (2-Butanone) | 1.27 | | ug/m³ | 0.59 | 0.34 | 1 | 09/17/21 | 09/18/21 08:52 | CMK |
| Methyl isobutyl ketone | ND | | ug/m³ | 0.82 | 0.82 | 1 | 09/17/21 | 09/18/21 08:52 | CMK |
| Naphthalene | ND | | ug/m³ | 1.10 | 0.70 | 1 | 09/17/21 | 09/18/21 08:52 | CMK |
| Propene | ND | | ug/m³ | 0.34 | 0.34 | 1 | 09/17/21 | 09/18/21 08:52 | CMK |
| n-Propylbenzene | ND | | ug/m³ | 0.98 | 0.40 | 1 | 09/17/21 | 09/18/21 08:52 | CMK |
| Styrene | 0.21 | J | ug/m³ | 0.85 | 0.15 | 1 | 09/17/21 | 09/18/21 08:52 | CMK |
| 1,1,2,2-Tetrachloroethane | ND | | ug/m³ | 1.40 | 0.35 | 1 | 09/17/21 | 09/18/21 08:52 | CMK |
| Tetrachloroethene | ND | | ug/m³ | 1.40 | 0.70 | 1 | 09/17/21 | 09/18/21 08:52 | CMK |
| Tetrahydrofuran | ND | | ug/m³ | 0.59 | 0.15 | 1 | 09/17/21 | 09/18/21 08:52 | CMK |
| Toluene | 2.15 | | ug/m³ | 0.75 | 0.35 | 1 | 09/17/21 | 09/18/21 08:52 | CMK |
| 1,2,4-Trichlorobenzene | ND | | ug/m³ | 1.50 | 0.38 | 1 | 09/17/21 | 09/18/21 08:52 | CMK |
| 1,1,1-Trichloroethane | ND | | ug/m³ | 1.10 | 0.28 | 1 | 09/17/21 | 09/18/21 08:52 | CMK |
| 1,1,2-Trichloroethane | ND | | ug/m³ | 1.10 | 0.28 | 1 | 09/17/21 | 09/18/21 08:52 | CMK |
| Trichloroethene | ND | | ug/m³ | 1.10 | 0.28 | 1 | 09/17/21 | 09/18/21 08:52 | CMK |
| Trichlorofluoromethane (Freon 11) | 1.29 | | ug/m ³ | 1.10 | 0.28 | 1 | 09/17/21 | 09/18/21 08:52 | CMK |
| 1,2,4-Trimethylbenzene | 0.34 | J | ug/m³ | 0.98 | 0.25 | 1 | 09/17/21 | 09/18/21 08:52 | CMK |
| 1,3,5-Trimethylbenzene | ND | | ug/m³ | 0.98 | 0.25 | 1 | 09/17/21 | 09/18/21 08:52 | CMK |
| 2,2,4-Trimethylpentane | ND | | ug/m³ | 0.93 | 0.23 | 1 | 09/17/21 | 09/18/21 08:52 | CMK |
| Vinyl acetate | ND | | ug/m³ | 0.70 | 0.70 | 1 | 09/17/21 | 09/18/21 08:52 | CMK |
| Vinyl bromide | ND | | ug/m³ | 0.87 | 0.22 | 1 | 09/17/21 | 09/18/21 08:52 | CMK |
| Vinyl chloride | ND | | ug/m³ | 0.51 | 0.13 | 1 | 09/17/21 | 09/18/21 08:52 | CMK |
| o-Xylene | 0.35 | J | ug/m³ | 0.87 | 0.22 | 1 | 09/17/21 | 09/18/21 08:52 | CMK |
| m- & p-Xylenes | 0.74 | J | ug/m³ | 1.70 | 0.43 | 1 | 09/17/21 | 09/18/21 08:52 | CMK |
| Surrogate: 4-Bromofluorobenzene | | 7. | 3-115 | 95 % | 09/17/21 | I | 09/18/21 08:52 | | |

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Page 27 of 43

Version 1.000

Page 24 of 36

Maryland **spectral** Services



Project: 4920002

Project Number: [none] Project Manager: Amber Confer 1500 Caton Center Dr Suite G Baltimore MD 21227 410-247-7600 www.mdspectral.com

Reported:

09/21/21 10:46

JP-LIBRARY 21091322-012 1091424-12 (Vapor) Sample Date: 09/09/21

| | | | | Reporting | Detection | | | | |
|------------------------------------|----------|------------|-----------|-------------|-------------|----------|----------|----------------|---------|
| Analyte | Result | Notes | Units | Limit (MRL) | Limit (LOD) | Dilution | Prepared | Analyzed | Analyst |
| Volatile Organics by EPA TO-15 (Ge | C/MS) Pi | repared by | y TO-15 F | Prep | | | | | |
| Acetone | 15.0 | | ug/m³ | 2.40 | 2.40 | 1 | 09/17/21 | 09/18/21 09:26 | CMK |
| Benzene | 0.26 | J | ug/m³ | 0.64 | 0.16 | 1 | 09/17/21 | 09/18/21 09:26 | CMK |
| Benzyl chloride | ND | | ug/m³ | 1.00 | 0.25 | 1 | 09/17/21 | 09/18/21 09:26 | CMK |
| Bromodichloromethane | ND | | ug/m³ | 1.30 | 0.33 | 1 | 09/17/21 | 09/18/21 09:26 | CMK |
| Bromoform | ND | | ug/m³ | 2.10 | 0.53 | 1 | 09/17/21 | 09/18/21 09:26 | CMK |
| Bromomethane | ND | | ug/m³ | 0.78 | 0.20 | 1 | 09/17/21 | 09/18/21 09:26 | CMK |
| 1,3-Butadiene | ND | | ug/m³ | 0.44 | 0.44 | 1 | 09/17/21 | 09/18/21 09:26 | CMK |
| Carbon disulfide | ND | | ug/m³ | 1.56 | 1.56 | 1 | 09/17/21 | 09/18/21 09:26 | CMK |
| Carbon tetrachloride | 0.50 | J | ug/m³ | 1.30 | 0.33 | 1 | 09/17/21 | 09/18/21 09:26 | CMK |
| Chlorobenzene | ND | | ug/m³ | 0.92 | 0.23 | 1 | 09/17/21 | 09/18/21 09:26 | CMK |
| Chloroethane | ND | | ug/m³ | 0.53 | 0.27 | 1 | 09/17/21 | 09/18/21 09:26 | CMK |
| Chloroform | 0.73 | J | ug/m³ | 0.97 | 0.24 | 1 | 09/17/21 | 09/18/21 09:26 | CMK |
| Chloromethane | 1.12 | | ug/m³ | 0.41 | 0.10 | 1 | 09/17/21 | 09/18/21 09:26 | CMK |
| 3-Chloropropene | ND | | ug/m³ | 0.63 | 0.16 | 1 | 09/17/21 | 09/18/21 09:26 | CMK |
| Cyclohexane | ND | | ug/m³ | 0.69 | 0.17 | 1 | 09/17/21 | 09/18/21 09:26 | CMK |
| Dibromochloromethane | ND | | ug/m³ | 1.30 | 0.33 | 1 | 09/17/21 | 09/18/21 09:26 | CMK |
| 1,2-Dibromoethane (EDB) | ND | | ug/m³ | 1.40 | 0.35 | 1 | 09/17/21 | 09/18/21 09:26 | CMK |
| 1,2-Dichlorobenzene | ND | | ug/m³ | 1.20 | 0.30 | 1 | 09/17/21 | 09/18/21 09:26 | CMK |
| 1,3-Dichlorobenzene | ND | | ug/m³ | 1.20 | 0.30 | 1 | 09/17/21 | 09/18/21 09:26 | CMK |
| 1,4-Dichlorobenzene | ND | | ug/m³ | 1.20 | 0.30 | 1 | 09/17/21 | 09/18/21 09:26 | CMK |
| Dichlorodifluoromethane | 2.27 | | ug/m³ | 0.99 | 0.99 | 1 | 09/17/21 | 09/18/21 09:26 | CMK |
| 1,1-Dichloroethane | ND | | ug/m³ | 0.81 | 0.20 | 1 | 09/17/21 | 09/18/21 09:26 | CMK |
| 1,2-Dichloroethane | ND | | ug/m³ | 0.81 | 0.20 | 1 | 09/17/21 | 09/18/21 09:26 | CMK |
| 1,1-Dichloroethene | ND | | ug/m³ | 0.79 | 0.20 | 1 | 09/17/21 | 09/18/21 09:26 | CMK |
| cis-1,2-Dichloroethene | ND | | ug/m³ | 0.79 | 0.20 | 1 | 09/17/21 | 09/18/21 09:26 | CMK |
| trans-1,2-Dichloroethene | ND | | ug/m³ | 0.79 | 0.20 | 1 | 09/17/21 | 09/18/21 09:26 | СМК |
| 1,2-Dichloropropane | ND | | ug/m³ | 0.92 | 0.23 | 1 | 09/17/21 | 09/18/21 09:26 | CMK |
| cis-1,3-Dichloropropene | ND | | ug/m³ | 0.91 | 0.23 | 1 | 09/17/21 | 09/18/21 09:26 | CMK |
| trans-1,3-Dichloropropene | ND | | ug/m³ | 0.91 | 0.23 | 1 | 09/17/21 | 09/18/21 09:26 | CMK |
| 1,4-Dioxane | ND | | ug/m³ | 0.72 | 0.18 | 1 | 09/17/21 | 09/18/21 09:26 | CMK |
| Ethyl acetate | ND | | ug/m³ | 3.60 | 3.60 | 1 | 09/17/21 | 09/18/21 09:26 | CMK |
| Ethylbenzene | ND | | ug/m³ | 0.87 | 0.22 | 1 | 09/17/21 | 09/18/21 09:26 | СМК |
| 4-Ethyltoluene | ND | | ug/m³ | 0.98 | 0.25 | 1 | 09/17/21 | 09/18/21 09:26 | CMK |
| Freon 113 | 0.54 | J | ug/m³ | 1.50 | 0.38 | 1 | 09/17/21 | 09/18/21 09:26 | СМК |

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Page 28 of 43

Maryland **spectral** Services



Project: 4920002

Project Number: [none] Project Manager: Amber Confer 1500 Caton Center Dr Suite G Baltimore MD 21227 410-247-7600 www.mdspectral.com

Reported:

09/21/21 10:46

JP-LIBRARY 21091322-012 1091424-12 (Vapor) Sample Date: 09/09/21

| | | | | Reporting | Detection | | | | |
|-----------------------------------|-----------|-----------|-------------------|-----------------|-------------|----------|----------------|----------------|---------|
| Analyte | Result | Notes | Units | Limit (MRL) | Limit (LOD) | Dilution | Prepared | Analyzed | Analyst |
| Volatile Organics by EPA TO-15 (G | GC/MS) Pi | repared b | <u>y TO-15 F</u> | rep (continued) | | | | | |
| Freon 114 | ND | | ug/m³ | 1.40 | 1.40 | 1 | 09/17/21 | 09/18/21 09:26 | CMK |
| n-Heptane | ND | | ug/m³ | 0.82 | 0.21 | 1 | 09/17/21 | 09/18/21 09:26 | CMK |
| Hexachlorobutadiene | ND | | ug/m³ | 2.10 | 2.10 | 1 | 09/17/21 | 09/18/21 09:26 | CMK |
| Hexane | ND | | ug/m³ | 14.0 | 14.0 | 1 | 09/17/21 | 09/18/21 09:26 | CMK |
| 2-Hexanone | 0.16 | J | ug/m³ | 0.82 | 0.15 | 1 | 09/17/21 | 09/18/21 09:26 | CMK |
| Isopropylbenzene (Cumene) | ND | | ug/m³ | 1.10 | 0.40 | 1 | 09/17/21 | 09/18/21 09:26 | CMK |
| Methyl tert-butyl ether (MTBE) | ND | | ug/m³ | 0.72 | 0.21 | 1 | 09/17/21 | 09/18/21 09:26 | CMK |
| Methylene chloride | ND | | ug/m³ | 18.0 | 18.0 | 1 | 09/17/21 | 09/18/21 09:26 | CMK |
| Methyl ethyl ketone (2-Butanone) | 0.94 | | ug/m³ | 0.59 | 0.34 | 1 | 09/17/21 | 09/18/21 09:26 | CMK |
| Methyl isobutyl ketone | ND | | ug/m ³ | 0.82 | 0.82 | 1 | 09/17/21 | 09/18/21 09:26 | CMK |
| Naphthalene | ND | | ug/m³ | 1.10 | 0.70 | 1 | 09/17/21 | 09/18/21 09:26 | CMK |
| Propene | ND | | ug/m³ | 0.34 | 0.34 | 1 | 09/17/21 | 09/18/21 09:26 | CMK |
| n-Propylbenzene | ND | | ug/m³ | 0.98 | 0.40 | 1 | 09/17/21 | 09/18/21 09:26 | CMK |
| Styrene | ND | | ug/m³ | 0.85 | 0.15 | 1 | 09/17/21 | 09/18/21 09:26 | CMK |
| 1,1,2,2-Tetrachloroethane | ND | | ug/m³ | 1.40 | 0.35 | 1 | 09/17/21 | 09/18/21 09:26 | CMK |
| Tetrachloroethene | ND | | ug/m³ | 1.40 | 0.70 | 1 | 09/17/21 | 09/18/21 09:26 | CMK |
| Tetrahydrofuran | 0.18 | J | ug/m³ | 0.59 | 0.15 | 1 | 09/17/21 | 09/18/21 09:26 | CMK |
| Toluene | 1.43 | | ug/m³ | 0.75 | 0.35 | 1 | 09/17/21 | 09/18/21 09:26 | CMK |
| 1,2,4-Trichlorobenzene | ND | | ug/m³ | 1.50 | 0.38 | 1 | 09/17/21 | 09/18/21 09:26 | CMK |
| 1,1,1-Trichloroethane | ND | | ug/m³ | 1.10 | 0.28 | 1 | 09/17/21 | 09/18/21 09:26 | CMK |
| 1,1,2-Trichloroethane | ND | | ug/m³ | 1.10 | 0.28 | 1 | 09/17/21 | 09/18/21 09:26 | CMK |
| Trichloroethene | ND | | ug/m³ | 1.10 | 0.28 | 1 | 09/17/21 | 09/18/21 09:26 | CMK |
| Trichlorofluoromethane (Freon 11) | 1.29 | | ug/m³ | 1.10 | 0.28 | 1 | 09/17/21 | 09/18/21 09:26 | CMK |
| 1,2,4-Trimethylbenzene | ND | | ug/m³ | 0.98 | 0.25 | 1 | 09/17/21 | 09/18/21 09:26 | CMK |
| 1,3,5-Trimethylbenzene | ND | | ug/m³ | 0.98 | 0.25 | 1 | 09/17/21 | 09/18/21 09:26 | CMK |
| 2,2,4-Trimethylpentane | ND | | ug/m³ | 0.93 | 0.23 | 1 | 09/17/21 | 09/18/21 09:26 | CMK |
| Vinyl acetate | ND | | ug/m³ | 0.70 | 0.70 | 1 | 09/17/21 | 09/18/21 09:26 | CMK |
| Vinyl bromide | ND | | ug/m³ | 0.87 | 0.22 | 1 | 09/17/21 | 09/18/21 09:26 | CMK |
| Vinyl chloride | ND | | ug/m³ | 0.51 | 0.13 | 1 | 09/17/21 | 09/18/21 09:26 | CMK |
| o-Xylene | ND | | ug/m³ | 0.87 | 0.22 | 1 | 09/17/21 | 09/18/21 09:26 | CMK |
| m- & p-Xylenes | 0.48 | J | ug/m³ | 1.70 | 0.43 | 1 | 09/17/21 | 09/18/21 09:26 | CMK |
| Surrogate: 4-Bromofluorobenzene | | 7 | 3-115 | 95 % | 09/17/2 | 1 | 09/18/21 09:26 | | |

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Page 29 of 43

Maryland **spectral** Services



Analytical Results

Project: 4920002

Project Number: [none] Project Manager: Amber Confer 1500 Caton Center Dr Suite G Baltimore MD 21227 410-247-7600 www.mdspectral.com

Reported:

09/21/21 10:46

JP-ROOM 14 21091322-013 1091424-13 (Vapor) Sample Date: 09/09/21

| | | | | Reporting | Detection | | | | |
|------------------------------------|---------|------------|------------------|-------------|-------------|----------|----------|----------------|---------|
| Analyte | Result | Notes | Units | Limit (MRL) | Limit (LOD) | Dilution | Prepared | Analyzed | Analyst |
| Volatile Organics by EPA TO-15 (Ge | C/MS) P | repared by | y TO-15 I | Prep | | | | | |
| Acetone | 14.8 | | ug/m³ | 2.40 | 2.40 | 1 | 09/17/21 | 09/18/21 10:00 | CMK |
| Benzene | 0.26 | J | ug/m³ | 0.64 | 0.16 | 1 | 09/17/21 | 09/18/21 10:00 | CMK |
| Benzyl chloride | ND | | ug/m³ | 1.00 | 0.25 | 1 | 09/17/21 | 09/18/21 10:00 | CMK |
| Bromodichloromethane | ND | | ug/m³ | 1.30 | 0.33 | 1 | 09/17/21 | 09/18/21 10:00 | CMK |
| Bromoform | ND | | ug/m³ | 2.10 | 0.53 | 1 | 09/17/21 | 09/18/21 10:00 | CMK |
| Bromomethane | ND | | ug/m³ | 0.78 | 0.20 | 1 | 09/17/21 | 09/18/21 10:00 | CMK |
| 1,3-Butadiene | ND | | ug/m³ | 0.44 | 0.44 | 1 | 09/17/21 | 09/18/21 10:00 | CMK |
| Carbon disulfide | ND | | ug/m³ | 1.56 | 1.56 | 1 | 09/17/21 | 09/18/21 10:00 | CMK |
| Carbon tetrachloride | 0.50 | J | ug/m³ | 1.30 | 0.33 | 1 | 09/17/21 | 09/18/21 10:00 | CMK |
| Chlorobenzene | ND | | ug/m³ | 0.92 | 0.23 | 1 | 09/17/21 | 09/18/21 10:00 | CMK |
| Chloroethane | ND | | ug/m³ | 0.53 | 0.27 | 1 | 09/17/21 | 09/18/21 10:00 | CMK |
| Chloroform | 2.64 | | ug/m³ | 0.97 | 0.24 | 1 | 09/17/21 | 09/18/21 10:00 | CMK |
| Chloromethane | 0.95 | | ug/m³ | 0.41 | 0.10 | 1 | 09/17/21 | 09/18/21 10:00 | CMK |
| 3-Chloropropene | ND | | ug/m³ | 0.63 | 0.16 | 1 | 09/17/21 | 09/18/21 10:00 | CMK |
| Cyclohexane | ND | | ug/m³ | 0.69 | 0.17 | 1 | 09/17/21 | 09/18/21 10:00 | CMK |
| Dibromochloromethane | ND | | ug/m³ | 1.30 | 0.33 | 1 | 09/17/21 | 09/18/21 10:00 | CMK |
| 1,2-Dibromoethane (EDB) | ND | | ug/m³ | 1.40 | 0.35 | 1 | 09/17/21 | 09/18/21 10:00 | CMK |
| 1,2-Dichlorobenzene | ND | | ug/m³ | 1.20 | 0.30 | 1 | 09/17/21 | 09/18/21 10:00 | CMK |
| 1,3-Dichlorobenzene | ND | | ug/m³ | 1.20 | 0.30 | 1 | 09/17/21 | 09/18/21 10:00 | CMK |
| 1,4-Dichlorobenzene | ND | | ug/m³ | 1.20 | 0.30 | 1 | 09/17/21 | 09/18/21 10:00 | CMK |
| Dichlorodifluoromethane | 2.27 | | ug/m³ | 0.99 | 0.99 | 1 | 09/17/21 | 09/18/21 10:00 | CMK |
| 1,1-Dichloroethane | ND | | ug/m³ | 0.81 | 0.20 | 1 | 09/17/21 | 09/18/21 10:00 | CMK |
| 1,2-Dichloroethane | ND | | ug/m³ | 0.81 | 0.20 | 1 | 09/17/21 | 09/18/21 10:00 | CMK |
| 1,1-Dichloroethene | ND | | ug/m³ | 0.79 | 0.20 | 1 | 09/17/21 | 09/18/21 10:00 | CMK |
| cis-1,2-Dichloroethene | ND | | ug/m³ | 0.79 | 0.20 | 1 | 09/17/21 | 09/18/21 10:00 | CMK |
| trans-1,2-Dichloroethene | ND | | ug/m³ | 0.79 | 0.20 | 1 | 09/17/21 | 09/18/21 10:00 | CMK |
| 1,2-Dichloropropane | ND | | ug/m³ | 0.92 | 0.23 | 1 | 09/17/21 | 09/18/21 10:00 | CMK |
| cis-1,3-Dichloropropene | ND | | ug/m³ | 0.91 | 0.23 | 1 | 09/17/21 | 09/18/21 10:00 | CMK |
| trans-1,3-Dichloropropene | ND | | ug/m³ | 0.91 | 0.23 | 1 | 09/17/21 | 09/18/21 10:00 | CMK |
| 1,4-Dioxane | ND | | ug/m³ | 0.72 | 0.18 | 1 | 09/17/21 | 09/18/21 10:00 | CMK |
| Ethyl acetate | ND | | ug/m³ | 3.60 | 3.60 | 1 | 09/17/21 | 09/18/21 10:00 | CMK |
| Ethylbenzene | 0.30 | J | ug/m³ | 0.87 | 0.22 | 1 | 09/17/21 | 09/18/21 10:00 | CMK |
| 4-Ethyltoluene | ND | | ug/m³ | 0.98 | 0.25 | 1 | 09/17/21 | 09/18/21 10:00 | CMK |
| Freon 113 | 0.54 | J | ug/m³ | 1.50 | 0.38 | 1 | 09/17/21 | 09/18/21 10:00 | CMK |

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Page 30 of 43

Maryland **spectral** Services



Analytical Results

Project: 4920002

Project Number: [none] Project Manager: Amber Confer 1500 Caton Center Dr Suite G Baltimore MD 21227 410-247-7600 www.mdspectral.com

Reported:

09/21/21 10:46

JP-ROOM 14 21091322-013 1091424-13 (Vapor) Sample Date: 09/09/21

| | | | | Reporting | Detection | | | | |
|-----------------------------------|-----------|------------|------------------|-----------------|-------------|----------|----------------|----------------|---------|
| Analyte | Result | Notes | Units | Limit (MRL) | Limit (LOD) | Dilution | Prepared | Analyzed | Analyst |
| Volatile Organics by EPA TO-15 (C | GC/MS) Pi | repared by | 7 TO-15 P | rep (continued) | | | | | |
| Freon 114 | ND | | ug/m³ | 1.40 | 1.40 | 1 | 09/17/21 | 09/18/21 10:00 | CMK |
| n-Heptane | 0.61 | J | ug/m³ | 0.82 | 0.21 | 1 | 09/17/21 | 09/18/21 10:00 | CMK |
| Hexachlorobutadiene | ND | | ug/m³ | 2.10 | 2.10 | 1 | 09/17/21 | 09/18/21 10:00 | CMK |
| Hexane | ND | | ug/m³ | 14.0 | 14.0 | 1 | 09/17/21 | 09/18/21 10:00 | CMK |
| 2-Hexanone | 0.16 | J | ug/m³ | 0.82 | 0.15 | 1 | 09/17/21 | 09/18/21 10:00 | CMK |
| Isopropylbenzene (Cumene) | ND | | ug/m³ | 1.10 | 0.40 | 1 | 09/17/21 | 09/18/21 10:00 | CMK |
| Methyl tert-butyl ether (MTBE) | ND | | ug/m³ | 0.72 | 0.21 | 1 | 09/17/21 | 09/18/21 10:00 | CMK |
| Methylene chloride | ND | | ug/m³ | 18.0 | 18.0 | 1 | 09/17/21 | 09/18/21 10:00 | CMK |
| Methyl ethyl ketone (2-Butanone) | 1.18 | | ug/m³ | 0.59 | 0.34 | 1 | 09/17/21 | 09/18/21 10:00 | CMK |
| Methyl isobutyl ketone | ND | | ug/m³ | 0.82 | 0.82 | 1 | 09/17/21 | 09/18/21 10:00 | CMK |
| Naphthalene | 1.42 | | ug/m³ | 1.10 | 0.70 | 1 | 09/17/21 | 09/18/21 10:00 | CMK |
| Propene | ND | | ug/m³ | 0.34 | 0.34 | 1 | 09/17/21 | 09/18/21 10:00 | CMK |
| n-Propylbenzene | ND | | ug/m³ | 0.98 | 0.40 | 1 | 09/17/21 | 09/18/21 10:00 | CMK |
| Styrene | ND | | ug/m³ | 0.85 | 0.15 | 1 | 09/17/21 | 09/18/21 10:00 | CMK |
| 1,1,2,2-Tetrachloroethane | ND | | ug/m³ | 1.40 | 0.35 | 1 | 09/17/21 | 09/18/21 10:00 | CMK |
| Tetrachloroethene | ND | | ug/m³ | 1.40 | 0.70 | 1 | 09/17/21 | 09/18/21 10:00 | CMK |
| Tetrahydrofuran | ND | | ug/m³ | 0.59 | 0.15 | 1 | 09/17/21 | 09/18/21 10:00 | CMK |
| Toluene | 10.6 | | ug/m³ | 0.75 | 0.35 | 1 | 09/17/21 | 09/18/21 10:00 | CMK |
| 1,2,4-Trichlorobenzene | ND | | ug/m³ | 1.50 | 0.38 | 1 | 09/17/21 | 09/18/21 10:00 | CMK |
| 1,1,1-Trichloroethane | ND | | ug/m³ | 1.10 | 0.28 | 1 | 09/17/21 | 09/18/21 10:00 | CMK |
| 1,1,2-Trichloroethane | ND | | ug/m³ | 1.10 | 0.28 | 1 | 09/17/21 | 09/18/21 10:00 | CMK |
| Trichloroethene | ND | | ug/m³ | 1.10 | 0.28 | 1 | 09/17/21 | 09/18/21 10:00 | CMK |
| Trichlorofluoromethane (Freon 11) | 1.35 | | ug/m³ | 1.10 | 0.28 | 1 | 09/17/21 | 09/18/21 10:00 | CMK |
| 1,2,4-Trimethylbenzene | ND | | ug/m³ | 0.98 | 0.25 | 1 | 09/17/21 | 09/18/21 10:00 | CMK |
| 1,3,5-Trimethylbenzene | ND | | ug/m³ | 0.98 | 0.25 | 1 | 09/17/21 | 09/18/21 10:00 | CMK |
| 2,2,4-Trimethylpentane | ND | | ug/m³ | 0.93 | 0.23 | 1 | 09/17/21 | 09/18/21 10:00 | CMK |
| Vinyl acetate | ND | | ug/m³ | 0.70 | 0.70 | 1 | 09/17/21 | 09/18/21 10:00 | CMK |
| Vinyl bromide | ND | | ug/m³ | 0.87 | 0.22 | 1 | 09/17/21 | 09/18/21 10:00 | CMK |
| Vinyl chloride | ND | | ug/m³ | 0.51 | 0.13 | 1 | 09/17/21 | 09/18/21 10:00 | CMK |
| o-Xylene | 0.30 | J | ug/m³ | 0.87 | 0.22 | 1 | 09/17/21 | 09/18/21 10:00 | CMK |
| m- & p-Xylenes | 0.83 | J | ug/m³ | 1.70 | 0.43 | 1 | 09/17/21 | 09/18/21 10:00 | СМК |
| Surrogate: 4-Bromofluorobenzene | | 73 | -115 | 96 % | 09/17/21 | ! | 09/18/21 10:00 | | |

Surrogate: 4-Bromojiuorobenzen

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Page 31 of 43

Version 1.000

Page 28 of 36

Maryland **spectral** Services



Project: 4920002

Project Number: [none] Project Manager: Amber Confer 1500 Caton Center Dr Suite G Baltimore MD 21227 410-247-7600 www.mdspectral.com

Reported:

09/21/21 10:46

JP-ROOM 1 21091322-014 1091424-14 (Vapor) Sample Date: 09/09/21

| | | | | Reporting | Detection | | | | |
|-----------------------------------|---------|-----------|-------------------|-------------|-------------|----------|----------|----------------|---------|
| Analyte | Result | Notes | Units | Limit (MRL) | Limit (LOD) | Dilution | Prepared | Analyzed | Analyst |
| Volatile Organics by EPA TO-15 (G | C/MS) P | repared b | y TO-15 I | Prep | | | | | |
| Acetone | 20.7 | | ug/m³ | 2.40 | 2.40 | 1 | 09/17/21 | 09/18/21 10:34 | CMK |
| Benzene | 0.32 | J | ug/m ³ | 0.64 | 0.16 | 1 | 09/17/21 | 09/18/21 10:34 | CMK |
| Benzyl chloride | ND | | ug/m³ | 1.00 | 0.25 | 1 | 09/17/21 | 09/18/21 10:34 | CMK |
| Bromodichloromethane | ND | | ug/m³ | 1.30 | 0.33 | 1 | 09/17/21 | 09/18/21 10:34 | CMK |
| Bromoform | ND | | ug/m³ | 2.10 | 0.53 | 1 | 09/17/21 | 09/18/21 10:34 | CMK |
| Bromomethane | ND | | ug/m³ | 0.78 | 0.20 | 1 | 09/17/21 | 09/18/21 10:34 | CMK |
| 1,3-Butadiene | ND | | ug/m³ | 0.44 | 0.44 | 1 | 09/17/21 | 09/18/21 10:34 | CMK |
| Carbon disulfide | ND | | ug/m³ | 1.56 | 1.56 | 1 | 09/17/21 | 09/18/21 10:34 | CMK |
| Carbon tetrachloride | 0.50 | J | ug/m³ | 1.30 | 0.33 | 1 | 09/17/21 | 09/18/21 10:34 | CMK |
| Chlorobenzene | ND | | ug/m³ | 0.92 | 0.23 | 1 | 09/17/21 | 09/18/21 10:34 | CMK |
| Chloroethane | ND | | ug/m³ | 0.53 | 0.27 | 1 | 09/17/21 | 09/18/21 10:34 | CMK |
| Chloroform | 10.2 | | ug/m³ | 0.97 | 0.24 | 1 | 09/17/21 | 09/18/21 10:34 | CMK |
| Chloromethane | 1.05 | | ug/m ³ | 0.41 | 0.10 | 1 | 09/17/21 | 09/18/21 10:34 | CMK |
| 3-Chloropropene | ND | | ug/m³ | 0.63 | 0.16 | 1 | 09/17/21 | 09/18/21 10:34 | CMK |
| Cyclohexane | ND | | ug/m³ | 0.69 | 0.17 | 1 | 09/17/21 | 09/18/21 10:34 | CMK |
| Dibromochloromethane | ND | | ug/m³ | 1.30 | 0.33 | 1 | 09/17/21 | 09/18/21 10:34 | CMK |
| 1,2-Dibromoethane (EDB) | ND | | ug/m³ | 1.40 | 0.35 | 1 | 09/17/21 | 09/18/21 10:34 | CMK |
| 1,2-Dichlorobenzene | ND | | ug/m³ | 1.20 | 0.30 | 1 | 09/17/21 | 09/18/21 10:34 | CMK |
| 1,3-Dichlorobenzene | ND | | ug/m³ | 1.20 | 0.30 | 1 | 09/17/21 | 09/18/21 10:34 | CMK |
| 1,4-Dichlorobenzene | ND | | ug/m³ | 1.20 | 0.30 | 1 | 09/17/21 | 09/18/21 10:34 | CMK |
| Dichlorodifluoromethane | 2.13 | | ug/m³ | 0.99 | 0.99 | 1 | 09/17/21 | 09/18/21 10:34 | CMK |
| 1,1-Dichloroethane | ND | | ug/m³ | 0.81 | 0.20 | 1 | 09/17/21 | 09/18/21 10:34 | CMK |
| 1,2-Dichloroethane | ND | | ug/m³ | 0.81 | 0.20 | 1 | 09/17/21 | 09/18/21 10:34 | CMK |
| 1,1-Dichloroethene | ND | | ug/m³ | 0.79 | 0.20 | 1 | 09/17/21 | 09/18/21 10:34 | CMK |
| cis-1,2-Dichloroethene | ND | | ug/m³ | 0.79 | 0.20 | 1 | 09/17/21 | 09/18/21 10:34 | CMK |
| trans-1,2-Dichloroethene | ND | | ug/m³ | 0.79 | 0.20 | 1 | 09/17/21 | 09/18/21 10:34 | CMK |
| 1,2-Dichloropropane | ND | | ug/m³ | 0.92 | 0.23 | 1 | 09/17/21 | 09/18/21 10:34 | CMK |
| cis-1,3-Dichloropropene | ND | | ug/m³ | 0.91 | 0.23 | 1 | 09/17/21 | 09/18/21 10:34 | CMK |
| trans-1,3-Dichloropropene | ND | | ug/m³ | 0.91 | 0.23 | 1 | 09/17/21 | 09/18/21 10:34 | CMK |
| 1,4-Dioxane | ND | | ug/m³ | 0.72 | 0.18 | 1 | 09/17/21 | 09/18/21 10:34 | CMK |
| Ethyl acetate | ND | | ug/m³ | 3.60 | 3.60 | 1 | 09/17/21 | 09/18/21 10:34 | CMK |
| Ethylbenzene | ND | | ug/m³ | 0.87 | 0.22 | 1 | 09/17/21 | 09/18/21 10:34 | CMK |
| 4-Ethyltoluene | ND | | ug/m³ | 0.98 | 0.25 | 1 | 09/17/21 | 09/18/21 10:34 | CMK |
| Freon 113 | 0.46 | J | ug/m³ | 1.50 | 0.38 | 1 | 09/17/21 | 09/18/21 10:34 | СМК |

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Page 32 of 43

Maryland **spectral** Services



Analytical Results

Project: 4920002

Project Number: [none] Project Manager: Amber Confer 1500 Caton Center Dr Suite G Baltimore MD 21227 410-247-7600 www.mdspectral.com

Reported:

09/21/21 10:46

JP-ROOM 1 21091322-014 1091424-14 (Vapor) Sample Date: 09/09/21

| | | | | Reporting | Detection | | | | |
|------------------------------------|----------|----------|-----------|-----------------|-------------|----------|----------------|----------------|---------|
| Analyte | Result | Notes | Units | Limit (MRL) | Limit (LOD) | Dilution | Prepared | Analyzed | Analyst |
| Volatile Organics by EPA TO-15 (Ge | C/MS) Pi | epared b | y TO-15 P | rep (continued) | | | | | |
| Freon 114 | ND | | ug/m³ | 1.40 | 1.40 | 1 | 09/17/21 | 09/18/21 10:34 | CMK |
| n-Heptane | 0.78 | J | ug/m³ | 0.82 | 0.21 | 1 | 09/17/21 | 09/18/21 10:34 | CMK |
| Hexachlorobutadiene | ND | | ug/m³ | 2.10 | 2.10 | 1 | 09/17/21 | 09/18/21 10:34 | CMK |
| Hexane | ND | | ug/m³ | 14.0 | 14.0 | 1 | 09/17/21 | 09/18/21 10:34 | CMK |
| 2-Hexanone | 0.29 | J | ug/m³ | 0.82 | 0.15 | 1 | 09/17/21 | 09/18/21 10:34 | CMK |
| Isopropylbenzene (Cumene) | ND | | ug/m³ | 1.10 | 0.40 | 1 | 09/17/21 | 09/18/21 10:34 | CMK |
| Methyl tert-butyl ether (MTBE) | ND | | ug/m³ | 0.72 | 0.21 | 1 | 09/17/21 | 09/18/21 10:34 | CMK |
| Methylene chloride | ND | | ug/m³ | 18.0 | 18.0 | 1 | 09/17/21 | 09/18/21 10:34 | CMK |
| Methyl ethyl ketone (2-Butanone) | 1.56 | | ug/m³ | 0.59 | 0.34 | 1 | 09/17/21 | 09/18/21 10:34 | CMK |
| Methyl isobutyl ketone | ND | | ug/m³ | 0.82 | 0.82 | 1 | 09/17/21 | 09/18/21 10:34 | CMK |
| Naphthalene | ND | | ug/m³ | 1.10 | 0.70 | 1 | 09/17/21 | 09/18/21 10:34 | CMK |
| Propene | ND | | ug/m³ | 0.34 | 0.34 | 1 | 09/17/21 | 09/18/21 10:34 | CMK |
| n-Propylbenzene | ND | | ug/m³ | 0.98 | 0.40 | 1 | 09/17/21 | 09/18/21 10:34 | CMK |
| Styrene | 0.21 | J | ug/m³ | 0.85 | 0.15 | 1 | 09/17/21 | 09/18/21 10:34 | CMK |
| 1,1,2,2-Tetrachloroethane | ND | | ug/m³ | 1.40 | 0.35 | 1 | 09/17/21 | 09/18/21 10:34 | CMK |
| Tetrachloroethene | ND | | ug/m³ | 1.40 | 0.70 | 1 | 09/17/21 | 09/18/21 10:34 | CMK |
| Tetrahydrofuran | 0.21 | J | ug/m³ | 0.59 | 0.15 | 1 | 09/17/21 | 09/18/21 10:34 | CMK |
| Toluene | 9.87 | | ug/m³ | 0.75 | 0.35 | 1 | 09/17/21 | 09/18/21 10:34 | CMK |
| 1,2,4-Trichlorobenzene | ND | | ug/m³ | 1.50 | 0.38 | 1 | 09/17/21 | 09/18/21 10:34 | CMK |
| 1,1,1-Trichloroethane | ND | | ug/m³ | 1.10 | 0.28 | 1 | 09/17/21 | 09/18/21 10:34 | CMK |
| 1,1,2-Trichloroethane | ND | | ug/m³ | 1.10 | 0.28 | 1 | 09/17/21 | 09/18/21 10:34 | CMK |
| Trichloroethene | ND | | ug/m³ | 1.10 | 0.28 | 1 | 09/17/21 | 09/18/21 10:34 | CMK |
| Trichlorofluoromethane (Freon 11) | 1.24 | | ug/m³ | 1.10 | 0.28 | 1 | 09/17/21 | 09/18/21 10:34 | CMK |
| 1,2,4-Trimethylbenzene | ND | | ug/m³ | 0.98 | 0.25 | 1 | 09/17/21 | 09/18/21 10:34 | CMK |
| 1,3,5-Trimethylbenzene | ND | | ug/m³ | 0.98 | 0.25 | 1 | 09/17/21 | 09/18/21 10:34 | CMK |
| 2,2,4-Trimethylpentane | ND | | ug/m³ | 0.93 | 0.23 | 1 | 09/17/21 | 09/18/21 10:34 | CMK |
| Vinyl acetate | ND | | ug/m³ | 0.70 | 0.70 | 1 | 09/17/21 | 09/18/21 10:34 | CMK |
| Vinyl bromide | ND | | ug/m³ | 0.87 | 0.22 | 1 | 09/17/21 | 09/18/21 10:34 | CMK |
| Vinyl chloride | ND | | ug/m³ | 0.51 | 0.13 | 1 | 09/17/21 | 09/18/21 10:34 | CMK |
| o-Xylene | ND | | ug/m³ | 0.87 | 0.22 | 1 | 09/17/21 | 09/18/21 10:34 | CMK |
| m- & p-Xylenes | 0.48 | J | ug/m³ | 1.70 | 0.43 | 1 | 09/17/21 | 09/18/21 10:34 | CMK |
| Surrogate: 4-Bromofluorobenzene | | 73 | 8-115 | 96 % | 09/17/21 | | 09/18/21 10:34 | | |

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Will Brewington, President

All analyses performed at Maryland Spectral Services included in the report are TNI certified except as indicated at the end of the report

Page 33 of 43

Maryland **spectral** Services



Project: 4920002

Project Number: [none] Project Manager: Amber Confer 1500 Caton Center Dr Suite G Baltimore MD 21227 410-247-7600 www.mdspectral.com

Reported:

09/21/21 10:46

JP-OUTDOOR 21091322-015 1091424-15 (Vapor) Sample Date: 09/09/21

| | | | | Reporting | Detection | | | | |
|------------------------------------|---------|-----------|-----------|-------------|-------------|----------|----------|----------------|---------|
| Analyte | Result | Notes | Units | Limit (MRL) | Limit (LOD) | Dilution | Prepared | Analyzed | Analyst |
| Volatile Organics by EPA TO-15 (Ge | C/MS) P | repared b | y TO-15 F | Prep | | | | | |
| Acetone | 11.5 | | ug/m³ | 2.40 | 2.40 | 1 | 09/17/21 | 09/18/21 11:08 | CMK |
| Benzene | 0.26 | J | ug/m³ | 0.64 | 0.16 | 1 | 09/17/21 | 09/18/21 11:08 | CMK |
| Benzyl chloride | ND | | ug/m³ | 1.00 | 0.25 | 1 | 09/17/21 | 09/18/21 11:08 | CMK |
| Bromodichloromethane | ND | | ug/m³ | 1.30 | 0.33 | 1 | 09/17/21 | 09/18/21 11:08 | CMK |
| Bromoform | ND | | ug/m³ | 2.10 | 0.53 | 1 | 09/17/21 | 09/18/21 11:08 | CMK |
| Bromomethane | ND | | ug/m³ | 0.78 | 0.20 | 1 | 09/17/21 | 09/18/21 11:08 | CMK |
| 1,3-Butadiene | ND | | ug/m³ | 0.44 | 0.44 | 1 | 09/17/21 | 09/18/21 11:08 | CMK |
| Carbon disulfide | ND | | ug/m³ | 1.56 | 1.56 | 1 | 09/17/21 | 09/18/21 11:08 | CMK |
| Carbon tetrachloride | 0.50 | J | ug/m³ | 1.30 | 0.33 | 1 | 09/17/21 | 09/18/21 11:08 | CMK |
| Chlorobenzene | ND | | ug/m³ | 0.92 | 0.23 | 1 | 09/17/21 | 09/18/21 11:08 | CMK |
| Chloroethane | ND | | ug/m³ | 0.53 | 0.27 | 1 | 09/17/21 | 09/18/21 11:08 | CMK |
| Chloroform | 0.29 | J | ug/m³ | 0.97 | 0.24 | 1 | 09/17/21 | 09/18/21 11:08 | CMK |
| Chloromethane | 1.01 | | ug/m³ | 0.41 | 0.10 | 1 | 09/17/21 | 09/18/21 11:08 | CMK |
| 3-Chloropropene | ND | | ug/m³ | 0.63 | 0.16 | 1 | 09/17/21 | 09/18/21 11:08 | CMK |
| Cyclohexane | ND | | ug/m³ | 0.69 | 0.17 | 1 | 09/17/21 | 09/18/21 11:08 | CMK |
| Dibromochloromethane | ND | | ug/m³ | 1.30 | 0.33 | 1 | 09/17/21 | 09/18/21 11:08 | CMK |
| 1,2-Dibromoethane (EDB) | ND | | ug/m³ | 1.40 | 0.35 | 1 | 09/17/21 | 09/18/21 11:08 | CMK |
| 1,2-Dichlorobenzene | ND | | ug/m³ | 1.20 | 0.30 | 1 | 09/17/21 | 09/18/21 11:08 | CMK |
| 1,3-Dichlorobenzene | ND | | ug/m³ | 1.20 | 0.30 | 1 | 09/17/21 | 09/18/21 11:08 | CMK |
| 1,4-Dichlorobenzene | ND | | ug/m³ | 1.20 | 0.30 | 1 | 09/17/21 | 09/18/21 11:08 | CMK |
| Dichlorodifluoromethane | 2.32 | | ug/m³ | 0.99 | 0.99 | 1 | 09/17/21 | 09/18/21 11:08 | CMK |
| 1,1-Dichloroethane | ND | | ug/m³ | 0.81 | 0.20 | 1 | 09/17/21 | 09/18/21 11:08 | CMK |
| 1,2-Dichloroethane | ND | | ug/m³ | 0.81 | 0.20 | 1 | 09/17/21 | 09/18/21 11:08 | CMK |
| 1,1-Dichloroethene | ND | | ug/m³ | 0.79 | 0.20 | 1 | 09/17/21 | 09/18/21 11:08 | CMK |
| cis-1,2-Dichloroethene | ND | | ug/m³ | 0.79 | 0.20 | 1 | 09/17/21 | 09/18/21 11:08 | CMK |
| trans-1,2-Dichloroethene | ND | | ug/m³ | 0.79 | 0.20 | 1 | 09/17/21 | 09/18/21 11:08 | CMK |
| 1,2-Dichloropropane | ND | | ug/m³ | 0.92 | 0.23 | 1 | 09/17/21 | 09/18/21 11:08 | CMK |
| cis-1,3-Dichloropropene | ND | | ug/m³ | 0.91 | 0.23 | 1 | 09/17/21 | 09/18/21 11:08 | CMK |
| trans-1,3-Dichloropropene | ND | | ug/m³ | 0.91 | 0.23 | 1 | 09/17/21 | 09/18/21 11:08 | CMK |
| 1,4-Dioxane | ND | | ug/m³ | 0.72 | 0.18 | 1 | 09/17/21 | 09/18/21 11:08 | CMK |
| Ethyl acetate | ND | | ug/m³ | 3.60 | 3.60 | 1 | 09/17/21 | 09/18/21 11:08 | CMK |
| Ethylbenzene | ND | | ug/m³ | 0.87 | 0.22 | 1 | 09/17/21 | 09/18/21 11:08 | CMK |
| 4-Ethyltoluene | ND | | ug/m³ | 0.98 | 0.25 | 1 | 09/17/21 | 09/18/21 11:08 | CMK |
| Freon 113 | 0.54 | J | ug/m³ | 1.50 | 0.38 | 1 | 09/17/21 | 09/18/21 11:08 | CMK |

Withut

The results in this report apply to the samples analyzed in accordance with the chain of autody document. This analytical report must be reproduced in its artitudy.

custody document. This analytical report must be reproduced in its entirety.

Will Brewington, President

All analyses performed at Maryland Spectral Services included in the report are TNI certified except as indicated at the end of the report

Page 34 of 43

Maryland **spectral** Services

Project: 4920002

Project Manager: Amber Confer

Project Number: [none]



410-247-7600

Analytical Results

Baltimore MD 21227 www.mdspectral.com

Reported:

09/21/21 10:46

1500 Caton Center Dr Suite G

JP-OUTDOOR 21091322-015 1091424-15 (Vapor) Sample Date: 09/09/21

| | | | | Reporting | Detection | | | | |
|-----------------------------------|-----------|----------|-----------|-----------------|-------------|----------|----------------|----------------|---------|
| Analyte | Result | Notes | Units | Limit (MRL) | Limit (LOD) | Dilution | Prepared | Analyzed | Analyst |
| Volatile Organics by EPA TO-15 (C | GC/MS) Pi | epared b | y TO-15 P | rep (continued) | | | | | |
| Freon 114 | ND | | ug/m³ | 1.40 | 1.40 | 1 | 09/17/21 | 09/18/21 11:08 | CMK |
| n-Heptane | ND | | ug/m³ | 0.82 | 0.21 | 1 | 09/17/21 | 09/18/21 11:08 | CMK |
| Hexachlorobutadiene | ND | | ug/m³ | 2.10 | 2.10 | 1 | 09/17/21 | 09/18/21 11:08 | CMK |
| Hexane | ND | | ug/m³ | 14.0 | 14.0 | 1 | 09/17/21 | 09/18/21 11:08 | CMK |
| 2-Hexanone | ND | | ug/m³ | 0.82 | 0.15 | 1 | 09/17/21 | 09/18/21 11:08 | CMK |
| Isopropylbenzene (Cumene) | ND | | ug/m³ | 1.10 | 0.40 | 1 | 09/17/21 | 09/18/21 11:08 | CMK |
| Methyl tert-butyl ether (MTBE) | ND | | ug/m³ | 0.72 | 0.21 | 1 | 09/17/21 | 09/18/21 11:08 | CMK |
| Methylene chloride | ND | | ug/m³ | 18.0 | 18.0 | 1 | 09/17/21 | 09/18/21 11:08 | CMK |
| Methyl ethyl ketone (2-Butanone) | 0.91 | | ug/m³ | 0.59 | 0.34 | 1 | 09/17/21 | 09/18/21 11:08 | CMK |
| Methyl isobutyl ketone | ND | | ug/m³ | 0.82 | 0.82 | 1 | 09/17/21 | 09/18/21 11:08 | CMK |
| Naphthalene | ND | | ug/m³ | 1.10 | 0.70 | 1 | 09/17/21 | 09/18/21 11:08 | CMK |
| Propene | ND | | ug/m³ | 0.34 | 0.34 | 1 | 09/17/21 | 09/18/21 11:08 | CMK |
| n-Propylbenzene | ND | | ug/m³ | 0.98 | 0.40 | 1 | 09/17/21 | 09/18/21 11:08 | CMK |
| Styrene | ND | | ug/m³ | 0.85 | 0.15 | 1 | 09/17/21 | 09/18/21 11:08 | CMK |
| 1,1,2,2-Tetrachloroethane | ND | | ug/m³ | 1.40 | 0.35 | 1 | 09/17/21 | 09/18/21 11:08 | CMK |
| Tetrachloroethene | ND | | ug/m³ | 1.40 | 0.70 | 1 | 09/17/21 | 09/18/21 11:08 | CMK |
| Tetrahydrofuran | ND | | ug/m³ | 0.59 | 0.15 | 1 | 09/17/21 | 09/18/21 11:08 | CMK |
| Toluene | 0.45 | J | ug/m³ | 0.75 | 0.35 | 1 | 09/17/21 | 09/18/21 11:08 | CMK |
| 1,2,4-Trichlorobenzene | ND | | ug/m³ | 1.50 | 0.38 | 1 | 09/17/21 | 09/18/21 11:08 | CMK |
| 1,1,1-Trichloroethane | ND | | ug/m³ | 1.10 | 0.28 | 1 | 09/17/21 | 09/18/21 11:08 | CMK |
| 1,1,2-Trichloroethane | ND | | ug/m³ | 1.10 | 0.28 | 1 | 09/17/21 | 09/18/21 11:08 | CMK |
| Trichloroethene | ND | | ug/m³ | 1.10 | 0.28 | 1 | 09/17/21 | 09/18/21 11:08 | CMK |
| Trichlorofluoromethane (Freon 11) | 1.24 | | ug/m³ | 1.10 | 0.28 | 1 | 09/17/21 | 09/18/21 11:08 | CMK |
| 1,2,4-Trimethylbenzene | ND | | ug/m³ | 0.98 | 0.25 | 1 | 09/17/21 | 09/18/21 11:08 | CMK |
| 1,3,5-Trimethylbenzene | ND | | ug/m³ | 0.98 | 0.25 | 1 | 09/17/21 | 09/18/21 11:08 | CMK |
| 2,2,4-Trimethylpentane | ND | | ug/m³ | 0.93 | 0.23 | 1 | 09/17/21 | 09/18/21 11:08 | CMK |
| Vinyl acetate | ND | | ug/m³ | 0.70 | 0.70 | 1 | 09/17/21 | 09/18/21 11:08 | CMK |
| Vinyl bromide | ND | | ug/m³ | 0.87 | 0.22 | 1 | 09/17/21 | 09/18/21 11:08 | CMK |
| Vinyl chloride | ND | | ug/m³ | 0.51 | 0.13 | 1 | 09/17/21 | 09/18/21 11:08 | CMK |
| o-Xylene | ND | | ug/m³ | 0.87 | 0.22 | 1 | 09/17/21 | 09/18/21 11:08 | CMK |
| m- & p-Xylenes | ND | | ug/m³ | 1.70 | 0.43 | 1 | 09/17/21 | 09/18/21 11:08 | CMK |
| Surrogate: 4-Bromofluorobenzene | | 7 | 3-115 | 94 % | 09/17/21 | , | 09/18/21 11:08 | | |

Mitante

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Will Brewington, President

All analyses performed at Maryland Spectral Services included in the report are TNI certified except as indicated at the end of the report

Page 35 of 43

Maryland <u>spectral</u> Ser es

Analytical Chemistry Services



Analytical Results

1500 Caton Center Dr Suite G Baltimore MD 21227 410-247-7600 www.mdspectral.com

Reported: 09/21/21 10:46

Project Number: [none] Project Manager: Amber Confer

Project: 4920002

Notes and Definitions

| DETAnalyte DETECTEDNDAnalyte NOT DETECTED at or above the reporting limitNRNot ReporteddrySample results reported on a dry weight basisRPDRelative Percent Difference%-SolidsPrecent Solids is a supportive test and as such does not require accreditation | J | Detected but below the reporting limit; therefore, result is an estimated concentration (CLP J-Flag). |
|---|----------|---|
| NR Not Reported dry Sample results reported on a dry weight basis RPD Relative Percent Difference | DET | Analyte DETECTED |
| dry Sample results reported on a dry weight basis RPD Relative Percent Difference | ND | Analyte NOT DETECTED at or above the reporting limit |
| RPD Relative Percent Difference | NR | Not Reported |
| | dry | Sample results reported on a dry weight basis |
| %-Solids Percent Solids is a supportive test and as such does not require accreditation | RPD | Relative Percent Difference |
| | %-Solids | Percent Solids is a supportive test and as such does not require accreditation |

Withinte

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Will Brewington, President All analyses performed at Maryland Spectral Services included in the report are TNI certified except as indicated at the end of the report

Page 36 of 43



Chain of Custody Form for Subcontracted Analyses

| ase Separation Sci 30 Baltimore Nati Itimore, MD 2122 Ione: (410) 747-87 x: (410) 788-8723 | onal Pike 18 70 | | Proj Proj |). No. : ect Location ect Number | : 4920002 | Mary 1500 | bles Transferred To: And Spectral Service Caton Center Drive more, MD 21227 | | |
|--|---|---------------------|-----------------|--|--|--------------|--|--------------|-------------|
| or Questions or | issues please contact: Ar | nber Confer | - | ort To LOD Report D |): <u>No</u> Due On :09/21/21 05:00 | Phon | ie: 410-247-7600 | | |
| Lab Sample ID | Field Sample ID | Date Sampled | Time Sampled | Matrix | Analyses Required | Method | Type of Container | Preservative | |
| 21091322-001 | JP - 50 Class | 09/09/21 | 18:50 | Air | VOCs in Air by GC/MS (subbed) | TO-15 | Air Canister | NON | |
| 21091322-002 | JP - 41 Class | 09/09/21 | 18:54 | Air | VOCs in Air by GC/MS (subbed) | TO-15 | Air Canister | NON | - 0 |
| 21091322-003 | JP - 38 Class | 09/09/21 | 18:57 | Air | VOCs in Air by GC/MS (subbed) | TO-15 | Air Canister | NON | - 0 |
| 21091322-004 | JP - 35 Hall | 09/09/21 | 18:59 | Air | VOCs in Air by GC/MS (subbed) | TO-15 | Air Canister | NON | - 64 |
| 21091322-005 | JP - Reception | 09/09/21 | 19:04 | Air | VOCs in Air by GC/MS (subbed) | TO-15 | Air Canister | NON | - 0 5 |
| 21091322-006 | JP - 53 Hall | 09/09/21 | 19:09 | Air | VOCs in Air by GC/MS (subbed) | TO-15 | Air Canister | NON | |
| 21091322-007 | JP - 33 Class | 09/09/21 | 19:13 | Air | VOCs in Air by GC/MS (subbed) | TO-15 | Air Canister | NON | - 15 |
| 1091322-008 | JP - 26 Class | 09/09/21 | 19:16 | Air | VOCs in Air by GC/MS (subbed) | TO-15 | Air Canister | NON | 1-6 |
| 1091322-009 | JP - Multi Purpose | 09/09/21 | 19:20 | Air | VOCs in Air by GC/MS (subbed) | TO-15 | Air Canister | NON | - 6 |
| 1091322-010 | JP - Gym | 09/09/21 | 19:24 | Air | VOCs in Air by GC/MS (subbed) | TO-15 | Air Canister | NON | 1 - 1 |
| 1091322-011 | JP - 22 Band | 09/09/21 | 19:04 | Air | VOCs in Air by GC/MS (subbed) | TO-15 | Air Canister | NON | - - - |
| 21091322-012 | JP - Library | 09/09/21 | 19:07 | Air | VOCs in Air by GC/MS (subbed) | . TO-15 | Air Canister | NON | -1) |
| 1091322-013 | JP - Room 14 | 09/09/21 | 19:11 | Air | VOCs in Air by GC/MS (subbed) | TO-15 | Air Canister | NON | |
| 21091322-014 | JP - Room 1 | 09/09/21 | 19:18 | Air | VOCs in Air by GC/MS (subbed) | TO-15 | Air Canister | NON | |
| 21091322-015 | JP - Outdoor | 09/09/21 | 19:21 | Air | VOCs in Air by GC/MS (subbed) | TO-15 | Air Canister | NON | |
| end Repor | rables Required: t Attn : reporting@ Ca | phaseonline.co | 5 | | Perform Q.C. Send | • | invoicing@phasec | nline.com | |
| | ed By: the | Date : 9 / 1 | | | Samples Received By : | fully all | 1/21 14:07 | | |
| mples Relinquishe | ed By: van als | Date : <u>09/</u> | | | Samples Received By: | NKA all | 7141 14:01 | | |
| mples Relinquishe | 1.D | Date: | - | D' | _ Samples Received By: | - | | | |

Version 1.000

Air Analysis by TO-15

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Chain of Custody

| Client Contact Information | Project Manage | r: Anhe | lon fe- | Carrier: | | | | | | | | of Z cocs |
|---|------------------------------------|---------------------------------------|-----------|---|---|------------------------|--------------------|-----------------|-----------------|-----------------------|--|-----------|
| Company: PSS | Phone: | B DY | | Samplers | Name(s) | | | | Anal | ysis/ | Matri | |
| | Site Contact; | | | | | | | | | | Τ | |
| · · · · · · · · · · · · · · · · · · · | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| Project Name: | Analysis Turna | | | - | | | | | | | | |
| Site: PO# | Standard (Speci Rush (Specify)_ | ity Snary | | 4 | | | | | Е | | it Air | |
| Sample Client Sample ID Date Start | Time Start San | nple Time Stop Stop (24 hr clock) | | Canister Pressure in Fleid ("Hg): (Stop) | incoming Canister Pressure ("Hg) (Lab) | Sample Regulator ID | Can ID | Can Size (L) | TO-15 FULL LIST | TO-15 ABREVIATED LIST | Indoor / Ambient Air Soll Gas / Subslab | Comments |
| 21091322-001 919/21 | 1450 910 | 1/21 1850 | 29 | 0 | | 14367 | 614 | 1.4 | Х | ì | X | 1091424 - |
| - 002 | 1455 1 | 1854 | 30 | 0 | | 1 | 60587 | | - | | 1 | -02 |
| -003 | 1500 | 1857 | 31 | 2 | | 03604 | 609 | | | | T | - 03 |
| -004 | 1503 | 1859 | 31 | 0 | | 03911 | 9334 | | | | | - 04 |
| - 005 | 1511 | 1904 | 31 | 0 | | 04722 | | | | | | - 05 |
| -006 | 1519 | 1909 | 31 | 0 | | | 00590 | | | | C DELINIANU | - 06 |
| -007 | 1524 | 1913 | 30 | 2 | | OCHHIB | | | | T | | -07 |
| -008 | 1529 | 1916 | 29 | 0 | | CHSON | | | | | | - 08 |
| -009 | 1538 | 1920 | | 0 | · · | 04503 | | | | | | - 0 9 |
| -010 | 1542 | 1924 | | 2 | | 10278 | | | | | | -10 |
| -011 | 1519 | 19041 | | 0 | | 14366 | 1 | | | | | - 11 |
| -012 | 1525 | 1907 | | 1 | | 03,05 | | | \square | | | -12 |
| -013 | 1531 | 1911 | 31 | | | 14029 | - | 1 | \square | | | . 13 |
| -014 | | 1918 | 30 | 2 | <u> </u> | 03007 | * | | | | T | -14 |
| Special Instructions/QC Requirements & Co | | | | 1 | 3 | - I q-i | | t | | ų | . | |
| Canisters Shipped by: Date/Time | ; ; | · · · · · · · · · · · · · · · · · · · | Canisters | Received p | y: | | Date/Time | 13/21 | כן | 40 | 1 | |
| Samples Relinquished by: Date/Time | 14/21 1 | 330 | Received | by: | le | | Date/Time | 1/21 | /3 | 3 | : | |
| Relinquished by Date/Time | 121, 14 | 07 | Received | auf | AL. | | Date/Time 9/14/ | 21 | 14 | :2 |)7 | |

Page158 GP43KIs

Version 1.000

Page 35 of 36

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Air Analysis by TO-15

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Chain of Custody

| Client Contact Information | Project Manager: Aw | nber Conftr | Carrier: | | | | | | | | | <u></u> | 2 | COCs |] | |
|--|------------------------|----------------------------|-----------------------------|--|------------------------|-----------------------------|-----------------|-----------------|-------------|----------------------|--------------------|---------|----------|-------|------|---|
| Company: PSS | Phone: | | Samplers N | ame(s) | | | | An | olysis | î,Ma | unit: trix | | | | 1 | |
| • | Site Contact: | | | | | | | | | | - | | | | | |
| | | | | | | | | | | | | | | | | |
| | - | | | | | | | | | | | | | | | |
| Project Name: | Analysis Turnaround Ti | | | | | | | | ISI. | | | | | | | |
| Site: | Standard (Specify) 😏 | , day | | | | | | | Ē | Åſ | | | | | | |
| PO# | Rush (Specify) | 1 | | | | | | IST | IAT | er | slat | | | | | |
| | | Pressure in Field ("Hg) | Pressure in Field ("Hg): | Incoming Canister Pressure "Hg) (Lab) F | Sample Regulator ID | Can ID | Can Size (L) | TO-15 FULL LIST | TO-15 ABREV | Indoor / Ambient Air | Soli Gas / Subslab | | Comments | | | |
| 21091322-015 9/9/21 | 15410 9/9/21 1 | 921 30 | Ð | | 10505 | CARLY | 1.4 | X | | Х | | 10 | 91 | 424 |]- 1 | 5 |
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| | | | | | | | - | | | | | | | | 7 | |
| | | | | | | | [| ┢── | | | | | | | | |
| Special Instructions/QC Requirements & Co | mments: | | l L | | | | <u> </u> | L | | | i | | | | - | |
| | | | | | | | | | | | : | | | | | |
| Canisters Shipped by: Date/Tim | | Canisters | Received by | · | | Date/Time 91/3 | : 21 1 | ζư | | | | | | | 4 | |
| Samples Relingnished by: Date/Tim | 4/2 1331 | Received | they to | | | Date/Time <i>ご</i> タ /14 | ! ///. | | 3 | | ··· | | | | | |
| Relinquished by: Date/Tim Un Exten 09/1 | s\{` | Referred | With | 4 | | Date/Time 9/14 | 2 | <u>)4</u> | :D | 7 | | | | | | |

Page13900043xis

Version 1.000

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Page 36 of 36

| PHASE | |
|--------------------|--|
| S EPARATION | |
| SCIENCE | |

Case Narrative

Project Name: ACPS IAQ testing PSS Project No.: 21091322

Any holding time exceedances, deviations from the method specifications, regulatory requirements or variations to the procedures outlined in the PSS Quality Assurance Manual are outlined below.

Matrix spike and matrix spike duplicate analyses may not be performed due to insufficient sample quantity. In these instances, a laboratory control sample and laboratory control sample duplicate are analyzed unless otherwise noted or specified in the method.

Sample Receipt:

Soil gas indoor air not indicated on COC; samples are indoor air. Incoming pressures not recorded upon receipt. Pressures will be taken at subcontractor.

21091322: Analyses associated with analyst code 4010 were performed by

Maryland Spectral Services, Inc., 1500 Caton Center Drive, Suite G, Baltimore, MD 21227 - VA 460156

NELAP accreditation was held for all analyses performed unless noted below. See www.phaseonline.com for complete PSS scope of accreditation.



SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM TO-15

www.phaseonline.com

PHASE SEPARATION SCIENCE, INC.

email: info@phaseonline.com

| ĩ | | Total Environmental Concep | ts, Inc. *OFEI | CELOC LO | ton | | 183/316200000000 | rk Order #: | | | PAGE 1 | | _ OF | 2 | | |
|---|----------|--------------------------------|----------------|-----------------------|-----------------------|-----------------------|------------------|----------------|---|--|---|--------------------|----------------|-----------------|--------------|----------|
| ł | | T MGR: Karl Ford | | 02 200 | | | 2 | 10913 | 72 | | | | | | | |
| İ | | kford@teci.pro | | PHONE NO: | 703) 567-4 | 346 | | | | | | | | | | |
| | | ACPS IAQ te | | | .: 4920002 | | * 3 | | * 2 ± | * 20 | er | ab * | Air * | | | |
| ł | PROJEC | James K. Polk | ES | | | | | g. D | essul () Sta | ressul J) Sto | anist 'Hg) L | Subsl | bient | List | Ħ | |
| ł | SITE LOO | Channing Mai | | P.O. NO.: | | | * | Sample Reg. ID | Canister Pressure in field ("Hg) Start | Canister Pressure * in field ("Hg) Stop | Incoming Canister Pressure ("Hg) Lab | Soil Gas / Subslab | Indoor/Ambient | TO-15 Full List | Special List | |
| 1 | SAMPLE | _{R(S):} Channing, Mar | *DATE | *Time Start | *DATE | *Time Stop | Can ID | Samp | Canis n fiel | Canis n fiel | ncon Press | Soil C | popul | 1-1 | Spec | REMARKS |
| í | LAB# | *SAMPLE IDENTIFICATION | START | (24hr clock) 14:50 | <u>stop</u> 9/9/21 | (24hr clock) 18:50 | 614 | 14367 | | 0 | | | | | | 1 |
| ł | - | JP - 50 Class | 9/9/21 | | | | | | | - | | | H | V | | |
| l | 2 | JP - 41 Class | 9/9/21 | 14:55 | 9/9/21 | 18:54 | 00587 | | | 0 | | | | - | <u> </u> | |
| I | 3 | JP - 38 Class | 9/9/21 | 15:00 | 9/9/21 | 18:57 | 609 | 03604 | | 2 | | | | | <u> </u> | 1 |
| I | ч | JP - 35 Hall | 9/9/21 | 15:03 | 9/9/21 | 18:59 | 9334 | 03911 | | 0 | | | | | | |
| I | 5 | JP - Reception | 9/9/21 | 15:11 | 9/9/21 | 19:04 | 896 | 04722 | | 0 | | | | 2 | | |
| l | 6 | JP - 53 Hall | 9/9/21 | 15:19 | 9/9/21 | 19:09 | 00590 |) 10228 | | 0 | | | | 2 | | |
| l | 7 | JP - 33 Class | 9/9/21 | 15:24 | 9/9/21 | 19:13 | 3678 | 04446 | | 2 | | | | | | |
| | 8 | JP - 26 Class | 9/9/21 | 15:29 | 9/9/21 | 19:16 | 1018 | | - | 0 | | | | 2 | | |
| | 9 | JP - Multi Purpose | 9/9/21 | 15:38 | 9/9/21 | 19:20 | 3685 | 04503 | | 0 | | | | ~ | | |
| | 10 | JP - Gym | 9/9/21 | 15:42 | 9/9/21 | 19:24 | 9332 | 10278 | | 2 | | | | ~ | | |
| 5 | Relinqui | ished By: (1) | Date | Time | Received By: | | | 4 2 5-1 | quested TA Day | T (One T 3-Day | AT per Co | DC) 2-Da | ay | Ship | 12.12 | Carrier: |
| | Chan | ning Jackson | 9/10/21 | 12:30 | | Λ | | Ne | xt Day | | gency | Oth | er | | CI | turi |
| | | ished By: (2) | Date | Time | Received By: | 64 | / | Data Delive | ables Req | uired: | | | | | | |
| | | ed Krans | 9/13/2 | 11244 | Received By: | Ne | | | | | | | | | | |
| | Relinqu | ished By: (3) | Date | Time | Neceived by. | | | Special Inst | ructions: | | | | | | | |
| | Relinqu | ished By: (4) | Date | Time | Received By: | | | | | | | | | | | |

6630 Baltimore National Pike • Route 40 West • Baltimore, Maryland 21228 • (410) 747-8770 • (800) 932-9047 • Fax (410) 788-8723

The client (Client Name), by signing, or having client's agent sign, this "Sample Chain of Custody/Agreement Form", agrees to pay for the above requested services per the latest version of the Service Brochure or PSS-provided quotation including any and all attorney's or other reasonable fees if collection becomes necessary. * = REQUIRED



SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM TO-15

PHASE SEPARATION SCIENCE, INC.

www.phaseonline.com

email: info@phaseonline.com

| Ļ | / *CLIEN | Total Environmental Conce | pts, Inc. *OFF | FICE LOC.: LC | orton | | | k Order #: | | | PAGE | 2 | OF | 2 | | |
|----------|---|-------------------------------|-----------------|-----------------------------|-----------------------|----------------------------|--------|-----------------|---|--|---|--------------------|--------------------|---------------------------|--------------|----------|
| | *PROJE | _{ст мgr:} Karl Ford | | | | | ć | 210913 | 97 | | | | | | | |
| | | kford@teci.pro | | *PHONE NO: | (703) 567-4 | 4346 | | | | | | | | | | |
| | | CT NAME: ACPS IAQ te | | | _{o.:} 492000 | | · 3 | * | * * | * d | er _ab | ab * | Air * | | | |
| | SITE LC | CATION: James K. Poll | < ES | P.O. NO.: | | | | eg. ID | ^b ressu Ig) Sta | Pressu Ig) Sto | Canist ("Hg) I | Subsl | bient | l List | st | |
| | SAMPLE | _{R(S):} Channing, Ma | rgaret | | | | * | Sample Reg. ID | Canister Pressure * in field ("Hg) Start | Canister Pressure * in field ("Hg) Stop | Incoming Canister Pressure ("Hg) Lab | Soil Gas / Subslab | Indoor/Ambient Air | TO-15 Full List | Special List | |
| 2) | LAB # | *SAMPLE IDENTIFICATION | *DATE START | *Time Start (24hr clock) | *DATE STOP | *Time Stop (24hr clock) | Can ID | San | Can in fi | Can in fi | Inco Pre | Soil | Inde | TO. | Spe | REMARKS |
| 10000 | 11 | JP - 22 Band | 9/9/21 | 15:19 | 9/9/21 | 19:04 | 883 | 14366 | 30 | 0 | | | | 2 | | |
| 00000 | 12 | JP - Library | 9/9/21 | 15:25 | 9/9/21 | 19:07 | 3053 | 03605 | 30 | 1 | | | | ~ | | |
| C. Later | 13 | JP - Room 14 | 9/9/21 | 15:31 | 9/9/21 | 19:11 | 10189 | 14029 | 31 | 1 | | | | ~ | | |
| 100000 | 14 | JP - Room 1 | 9/9/21 | 15:42 | 9/9/21 | 19:18 | 573 | 03607 | 30 | 2 | | | \Box | ~ | | |
| | 15 | JP - Outdoor | 9/9/21 | 15:46 | 9/9/21 | 19:21 | 9844 | 10505 | 30 | 0 | | | | ~ | | |
| | | | | | | | | _ | | | | | | | |] |
| 100 | | | | | | + | | | | | | H | Н | Н | | |
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| 1 | | shed By: (1) | Date | Time | Received By: | | (| 4 Reque | sted TAT | [(One T/] 3-Day | AT per CC |)C) 2-Da | v | Constanting of the second | Self Barries | Carrier: |
| | | ning Jackson shed By: (2) | 9/10/21 | 12:30 | | | | Next I | | Emerg | ency | Othe | - | (| 212 | vt |
| I | | | Date 9/13/ Z | Time (245 | Received By | \mathcal{D}_{i} | G |)ata Deliverabl | les Requi | ired: | | | | | | |
| | | shed By: (3) | Date | Time | Received By: | | s | pecial Instruc | tions: | | | | | | | |
| | Relinquished By: (4) Date Time Received By: | | | | | | | | | | | | | | | |

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The client (Client Name), by signing, or having client's agent sign, this "Sample Chain of Custody/Agreement Form", agrees to pay for the above requested services per the latest version of the Service Brochure or PSS-provided quotation including any and all attorney's or other reasonable fees if collection becomes necessary. * = REQUIRED



Sample Receipt Checklist

SCIENCE

Project Name: ACPS IAQ testing PSS Project No.: 21091322

| Client Name | Total Environmental Concepts - | Lorto | Rec | ceived By | Thomas V | Vingate |
|---|--|-------------------|-----|--|---|--|
| Disposal Date | 10/18/2021 | | Dat | e Received | 09/13/202 | 1 12:44:00 PM |
| | | | Del | ivered By | Client | |
| | | | Tra | cking No | Not Applica | able |
| | | | Log | ged In By | Thomas V | Vingate |
| Shipping Contai No. of Coolers | ner(s) 0 | | | | | - |
| Custody Seal(s Seal(s) Signed | | N/A N/A | | lce Temp (deg Temp Blank | C) | N/A No |
| Documentation COC agrees wi Chain of Custo | th sample labels? dy | Yes Yes | | Sampler Na MD DW Ce | | <u>anning, Margaret</u> <u>A</u> |
| Sample Contain Appropriate for Intact? Labeled and La | Specified Analysis? | Yes Yes Yes | | Custody Sea Seal(s) Sigr | | Not Applicable Not Applicable |
| Holding Time | | | | Total No. of | Samples R | eceived 15 |
| All Samples Re | ceived Within Holding Time(s)? | Yes | | | - | Received 15 |
| Orthophosphor Cyanides Sulfide TOC, DOC (fiel TOX, TKN, NH VOC, BTEX (V Do VOA vials h 624 VOC (Rcvo | Ils, filtered within 15 minutes of co us, filtered within 15 minutes of c d filtered), COD, Phenols 3, Total Phos OA Vials Rcvd Preserved) ave zero headspace? d at least one unpreserved VOA v d with trip blanks) | ollectio | | lq) lq) lq) lq) lq) lq) | H<2) H<2) H>12) H>9) H<2) H<2) H<2) H<2) | N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A |

Comments: (Any "No" response must be detailed in the comments section below.)

For any improper preservation conditions, list sample ID, preservative added (reagent ID number) below as well as documentation of any client notification as well as client instructions. Samples for pH, chlorine and dissolved oxygen should be analyzed as soon as possible, preferably in the field at the time of sampling. Samples which require thermal preservation shall be considered acceptable when received at a temperature above freezing to 6°C. Samples that are hand delivered on the day that they are collected may not meet these criteria but shall be considered acceptable if there is evidence that the chilling process has begun such as arrival on ice.

Soil gas indoor air not indicated on COC; samples are indoor air. Incoming pressures not recorded upon receipt. Pressures will be taken at subcontractor.

Samples Inspected/Checklist Completed By:

Date: 09/13/2021

PM Review and Approval: July J logy Am**Bage 43ferf 43**

Date: 09/13/2021 Version 1.000



SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM TO-15

www.phaseonline.com

PHASE SEPARATION SCIENCE, INC.

email: info@phaseonline.com

| | *CLIENT | T: CT MGR: | *0FF | TICE LOC.: | | | PSS Work | Order #: | | | PAGE _ | | OF | | | |
|---|------------------|------------------------|----------------|---|---------------|----------------------------|----------|------------------|---|--|---|------------------------|----------------------|-----------------|--------------|----------|
| | EMAIL: *PROJE | CT NAME: | | *PHONE NO: (PROJECT NO P.O. NO.: | 0.: | | Can ID * | Sample Reg. ID * | Canister Pressure * in field ("Hg) Start | Canister Pressure * in field ("Hg) Stop | Incoming Canister Pressure ("Hg) Lab | Soil Gas / Subslab * | Indoor/Ambient Air * | TO-15 Full List | Special List | |
| 2 | LAB # | *SAMPLE IDENTIFICATION | *DATE START | *Time Start (24hr clock) | *DATE STOP | *Time Stop (24hr clock) | Can | San | Can in fi | Can in fi | Incc Pre: | Soil | Inde | TO- | Spe | REMARKS |
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| 5 |) Relinqu | uished By: (1) | Date | Time | Received By: | | (| 4 Reque 5-Day | sted TAT | (One T/] 3-Day] Emere | AT per CC |)C) 2-Da] Oth | ıy er | Ship | ping C | Carrier: |
| | Relinqu | uished By: (2) | Date | Time | Received By: | | C | Data Deliverabl | es Requi | ired: | | | <u>.</u> | | | |
| | Relinqu | uished By: (3) | Date | Time | Received By: | | ະ | Special Instruct | tions: | | | | | | | |
| | Relinqu | uished By: (4) | Date | Time | Received By: | | | | | | | | | | | |

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The client (Client Name), by signing, or having client's agent sign, this "Sample Chain of Custody/Agreement Form", agrees to pay for the above requested services per the latest version of the Service Brochure or PSS-provided quotation including any and all attorney's or other reasonable fees if collection becomes necessary. * = REQUIRED



SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM TO-15

www.phaseonline.com

PHASE SEPARATION SCIENCE, INC.

email: info@phaseonline.com

| | *CLIENT | T: CT MGR: | *0FF | TICE LOC.: | | | PSS Work | Order #: | | | PAGE _ | | OF | | | |
|---|------------------|------------------------|----------------|---|---------------|----------------------------|----------|------------------|---|--|---|------------------------|----------------------|-----------------|--------------|----------|
| | EMAIL: *PROJE | CT NAME: | | *PHONE NO: (PROJECT NO P.O. NO.: | 0.: | | Can ID * | Sample Reg. ID * | Canister Pressure * in field ("Hg) Start | Canister Pressure * in field ("Hg) Stop | Incoming Canister Pressure ("Hg) Lab | Soil Gas / Subslab * | Indoor/Ambient Air * | TO-15 Full List | Special List | |
| 2 | LAB # | *SAMPLE IDENTIFICATION | *DATE START | *Time Start (24hr clock) | *DATE STOP | *Time Stop (24hr clock) | Can | San | Can in fi | Can in fi | Incc Pre: | Soil | Inde | TO- | Spe | REMARKS |
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| 5 |) Relinqu | uished By: (1) | Date | Time | Received By: | | (| 4 Reque 5-Day | sted TAT | (One T/] 3-Day] Emere | AT per CC |)C) 2-Da] Oth | ıy er | Ship | ping C | Carrier: |
| | Relinqu | uished By: (2) | Date | Time | Received By: | | C | Data Deliverabl | es Requi | ired: | | | <u>.</u> | | | |
| | Relinqu | uished By: (3) | Date | Time | Received By: | | ະ | Special Instruct | tions: | | | | | | | |
| | Relinqu | uished By: (4) | Date | Time | Received By: | | | | | | | | | | | |

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The client (Client Name), by signing, or having client's agent sign, this "Sample Chain of Custody/Agreement Form", agrees to pay for the above requested services per the latest version of the Service Brochure or PSS-provided quotation including any and all attorney's or other reasonable fees if collection becomes necessary. * = REQUIRED

Appendix D: Formaldehyde Analytical Results



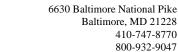
Project Name: ACPS IAQ Testing PSS Project No.: 21091315

September 21, 2021

Karl Ford Total Environmental Concepts - Lorton 8382 Terminal Road, Suite B Lorton, VA 22079

Reference: PSS Project No: **21091315** Project Name: ACPS IAQ Testing Project Location: James K. Polk ES Project ID.: 4920002

Dear Karl Ford:



www.phaseonline.com



This report includes the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Phase Separation Science (PSS) Project number(s) **21091315**.

Certificate of Analysis

All work reported herein has been performed in accordance with current NELAP standards, referenced methodologies, PSS Standard Operating Procedures and the PSS Quality Assurance Manual unless otherwise noted in the Case Narrative Summary. PSS is limited in liability to the actual cost of the sample analysis done.

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on October 18, 2021, with the exception of air canisters which are cleaned immediately following analysis. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt, the request will be acknowledged by PSS, thus extending the storage period.

This report shall not be reproduced except in full, without the written approval of an authorized PSS representative. A copy of this report will be retained by PSS for at least 5 years, after which time it will be disposed of without further notice, unless prior arrangements have been made.

We thank you for selecting Phase Separation Science, Inc. to serve your analytical needs. If you have any questions concerning this report, do not hesitate to contact us at 410-747-8770 or info@phaseonline.com.

Sincerely,

Dan Prucnal

Laboratory Manager





Project Name: ACPS IAQ Testing PSS Project No.: 21091315

Project ID: 4920002

The following samples were received under chain of custody by Phase Separation Science (PSS) on 09/13/2021 at 12:42 pm

| PSS Sample ID | Sample ID | Matrix | Date/Time Collected | |
|---------------|-------------------|--------|---------------------|--|
| 21091315-001 | JP- Library | AIR | 09/09/21 00:00 | |
| 21091315-002 | JP- 41 Class | AIR | 09/09/21 00:00 | |
| 21091315-003 | JP- 22 Class/Band | AIR | 09/09/21 00:00 | |
| 21091315-004 | JP- Room 1 | AIR | 09/09/21 00:00 | |
| 21091315-005 | JP- Gym | AIR | 09/09/21 00:00 | |
| 21091315-006 | JP- 14 Class | AIR | 09/09/21 00:00 | |
| 21091315-007 | JP- 50 Class | AIR | 09/09/21 00:00 | |
| 21091315-008 | JP- 38 Class | AIR | 09/09/21 00:00 | |
| 21091315-009 | JP- Reception | AIR | 09/09/21 00:00 | |
| 21091315-010 | JP- Hall 107 | AIR | 09/09/21 00:00 | |
| 21091315-011 | JP- Hall 35 | AIR | 09/09/21 00:00 | |
| 21091315-012 | JP- 33 Class | AIR | 09/09/21 00:00 | |
| 21091315-013 | JP- Multi Purpose | AIR | 09/09/21 00:00 | |
| 21091315-014 | JP- Hall 53 | AIR | 09/09/21 00:00 | |
| 21091315-015 | JP- 26 Class | AIR | 09/09/21 00:00 | |

Please reference the Chain of Custody and Sample Receipt Checklist for specific container counts and preservatives. Any sample conditions not in compliance with sample acceptance criteria are described in Case Narrative Summary.

Notes:

- 1. The presence of a common laboratory contaminant such as methylene chloride may be considered a possible laboratory artifact. Where observed, appropriate consideration of data should be taken.
- 2. Unless otherwise noted in the case narrative, results are reported on a dry weight basis with the exception of pH, flashpoint, moisture, and paint filter test.
- 3. Drinking water samples collected for the purpose of compliance with SDWA may not be suitable for their intended use unless collected by a certified sampler [COMAR 26.08.05.07.C.2].
- 4. The analyses of 1,2-dibromo-3-chloropropane (DBCP) and 1,2-dibromoethane (EDB) by EPA 524.2 and calcium, magnesium, sodium and iron by EPA 200.8 are not currently promulgated for use in testing to meet the Safe Drinking Water Act and as such cannot be used for compliance purposes. The listings of the current promulgated methods for testing in compliance with the Safe Drinking Water Act can be found in the 40 CFR part 141.1, for the primary drinking water contaminates, and part 141.3, for the secondary drinking water contaminates.
- 5. Sample prepared under EPA 3550C with concentrations greater than 20 mg/Kg should employ the microtip extraction procedure if required to meet data quality objectives.
- 6. The analysis of acrolein by EPA 624 must be analyzed within three days of sampling unless pH is adjusted to 4-5 units [40 CFR part 136.3(e)].

7. Method 180.1, The Determination of Turbidity by Nephelometry, recommends samples over 40 NTU be diluted until the turbidity falls below 40 units. Routine samples over 40 NTU may not be diluted as long as the data quality objectives are not affected.

8. Alkalinity results analyzed by EPA 310.2 that are reported by dilution are estimated and are not in compliance with method requirements.



Explanation of Qualifiers

SCIENCE

Project Name: ACPS IAQ Testing

PSS Project No.: 21091315

Standard Flags/Abbreviations:

- В A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- С Results Pending Final Confirmation.
- Е The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- The result exceeds the regulatory level for Toxicity Characteristic (TCLP) as cited in 40 CFR 261.24 Table 1. Fail
- J The target analyte was positively identified below the reporting limit but greater than the MDL.
- MDL This is the Laboratory Method Detection Limit which is equivalent to the Limit of Detection (LOD). The LOD is an estimate of the minimum amount of a substance that an analytical process can reliably detect. This value will remain constant across multiple similar instrumentation and among different analysts. An LOD is analyte and matrix specific.
- ND Not Detected at or above the reporting limit.
- PSS Reporting Limit. RL
- U Not detected.

Certifications:

NELAP Certifications: PA 68-03330, VA 460156 State Certifications: MD 179, WV 303 Regulated Soil Permit: P330-12-00268 NSWC USCG Accepted Laboratory LDBE MWAA LD1997-0041-2015



Ms. Amber Confer Phase Separation Science, Inc. 6630 Baltimore National Pike Baltimore, MD 21228 September 21, 2021

Account# 15354

Login# L546486

Dear Amber Confer:

Enclosed are the analytical results for the samples received by our laboratory on September 14, 2021. All samples on the chain of custody were received in good condition unless otherwise noted. Any additional observations will be noted on the chain of custody.

Please contact client services at (888) 432-5227 if you would like any additional information regarding this report. Thank you for using SGS Galson.

Sincerely,

SGS Galson

Lisa-Luab

Lisa Swab Laboratory Director

Enclosure(s)



ANALYTICAL REPORT

Terms and Conditions & General Disclaimers

- This document is issued by the Company under its General Conditions of Service accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.
- Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Analytical Disclaimers

- Unless otherwise noted within the report, all quality control results associated with the samples were within established control limits or did not impact reported results.
- Note: The findings recorded within this report were drawn from analysis of the sample(s) provided to the laboratory by the Client (or a third party acting at the Client's direction). The laboratory does not have control over the sampling process, including but not limited to the use of field equipment and collection media, as well as the sampling duration, collection volume or any other collection parameter used by the Client. The findings herein constitute no warranty of the sample's representativeness of any sampled environment, and strictly relate to the samples as they were presented to the laboratory. For recommended sampling collection parameters, please refer to the Sampling and Analysis Guide at www.sgsgalson.com.
- Unrounded results are carried through the calculations that yield the final result and the final result is rounded to the number of significant figures appropriate to the accuracy of the analytical method. Please note that results appearing in the columns preceding the final result column may have been rounded and therefore, if carried through the calculations, may not yield an identical final result to the one reported.
- The stated LOQs for each analyte represent the demonstrated LOQ concentrations prior to correction for desorption efficiency (if applicable).
- Unless otherwise noted within the report, results have not been blank corrected for any field blank or method blank data.

Accreditations SGS Galson holds a variety of accreditations and recognitions. Our quality management system conforms with the requirements of ISO/IEC 17025. Where applicable, samples may also be analyzed in accordance with the requirements of ELAP, NELAC, or LELAP under one of the state accrediting bodies listed below. Current Scopes of Accreditation can be viewed at http://www.sgsgalson.com in the accreditations section of the "About" page. To determine if the analyte tested falls under our scope of accreditation, please visit our website or call Client Services at (888) 432-5227.

| National/International | Accreditation/Recognition | Lab ID# | Program/Sector |
|-------------------------------------|-------------------------------|---------------|---|
| AIHA-LAP, LLC - IHLAP, ELLAP, EMLAP | ISO/IEC 17025 and USEPA NLLAP | Lab ID 100324 | Industrial Hygiene, Environmental Lead, |
| | | | Environmental Microbiology |

| State | Accreditation/Recognition | Lab ID# | Program/Sector |
|--------------------|------------------------------|---------------|---|
| New York (NYSDOH) | ELAP and NELAC (TNI) | Lab ID: 11626 | Air Analysis, Solid and Hazardous Waste |
| New Jersey (NJDEP) | NELAC (TNI) | Lab ID: NY024 | Air Analysis |
| Louisiana (LDEQ) | LELAP | Lab ID: 04083 | Air Analysis, Solid Chemical Materials |
| Texas | Texas Dept. of Licensing and | Lab ID: 1042 | Mold Analysis Laboratory license |
| | Regulation | | |

Legend

| < - Less than | mg - Milligrams | MDL - Method Detection Limit | ppb - Parts per Billion |
|-----------------------------|--------------------------|------------------------------|-------------------------|
| > - Greater than | ug - Micrograms | NA - Not Applicable | ppm - Parts per Million |
| I - Liters | m3 - Cubic Meters | NS - Not Specified | ppbv - ppb Volume |
| LOQ - Limit of Quantitation | kg - Kilograms | ND - Not Detected | ppmv - ppm Volume |
| ft2 - Square Feet | cm2 - Square Centimeters | in2 - Square Inches | ng - Nanograms |

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Version 1.000
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6601 Kirkville Road East Syracuse, NY 13057

FAX: (315) 437-0571

www.sgsgalson.com

(315) 432-5227

LABORATORY ANALYSIS REPORT

| Client | : Phase Separation Science, Inc. | Account No.: 15354 |
|---------------|----------------------------------|---------------------------|
| Site | : JAMES K. POLK ES | Login No. : L546486 |
| Project No. | : ACPS IAQ TESTING-4920002 | |
| Date Sampled | : 09-SEP-21 | Date Analyzed : 15-SEP-21 |
| Date Received | : 14-SEP-21 | Report ID : 1265194 |
| | | |

Formaldehyde

| | | Time | Total | Conc | |
|------------------|---------------|---------|-------|-------|-------|
| Sample ID | <u>Lab ID</u> | minutes | ug | mg/m3 | ppm |
| | | | | | |
| JP-LIBRARY | L546486-1 | 222 | <0.4 | <0.02 | <0.01 |
| JP-41 CLASS | L546486-2 | 242 | <0.4 | <0.01 | <0.01 |
| JP-22 CLASS/BAND | L546486-3 | 225 | <0.4 | <0.01 | <0.01 |
| JP-ROOM 1 | L546486-4 | 216 | <0.4 | <0.02 | <0.01 |
| JP-GYM | L546486-5 | 222 | <0.4 | <0.02 | <0.01 |
| JP-14 CLASS | L546486-6 | 220 | <0.4 | <0.02 | <0.01 |
| JP-50 CLASS | L546486-7 | 245 | <0.4 | <0.01 | <0.01 |
| JP-38 CLASS | L546486-8 | 237 | <0.4 | <0.01 | <0.01 |
| JP-RECEPTION | L546486-9 | 233 | <0.4 | <0.01 | <0.01 |
| JP-HALL 107 | L546486-10 | 218 | <0.4 | <0.02 | <0.01 |
| JP-HALL 35 | L546486-11 | 236 | <0.4 | <0.01 | <0.01 |
| JP-33 CLASS | L546486-12 | 229 | <0.4 | <0.01 | <0.01 |
| JP-MULIT PURPOSE | L546486-13 | 222 | <0.4 | <0.02 | <0.01 |
| JP-HALL 53 | L546486-14 | 230 | <0.4 | <0.01 | <0.01 |
| JP-26 CLASS | L546486-15 | 227 | <0.4 | <0.01 | <0.01 |
| | | | | | |

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

| Level of Quantitatic | n: 0.4 ug | Submitted by: JLL | Approved by: NKP |
|----------------------|---------------------------|-------------------|------------------|
| Analytical Method | : mod. OSHA 1007; HPLC/UV | Date : 21-SEP-21 | |
| Collection Media | : Assay 581 | Supervisor : MWJ | |

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Version 1.000
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LABORATORY FOOTNOTE REPORT

| | Client Name : Phase Separation | Science, inc. |
|-------------------------|---------------------------------|---------------------|
| | Site : JAMES K. POLK ES | |
| | Project No. : ACPS IAQ TESTING- | -4920002 |
| 6601 Kirkville Road | | |
| East Syracuse, NY 13057 | Date Sampled : 09-SEP-21 | Account No.: 15354 |
| (315) 432-5227 | Date Received: 14-SEP-21 | Login No. : L546486 |
| FAX: (315) 437-0571 | Date Analyzed: 15-SEP-21 | |
| www.sgsgalson.com | | |

L546486 (Report ID: 1265194):

Total ug corrected for a desorption efficiency of 96%. FORMALDEHYDE results have been corrected for the average background found on the media: 0.1178 ug for lot #4B21 (samples 1-15). SOPs: LC-SOP-4(23)

L546486 (Report ID: 1265194):

Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2). The estimated accuracy applies to the media, technology, and SOP referenced in this report and does not account for the uncertainty associated with the sampling process. The accuracy is based solely on spike recovery data from internal quality control samples. Where N/A appears below, insufficient data is available to provide statistical accuracy and mean recovery values for the associated analyte.

| Parameter | Accuracy | Mean Recovery |
|--------------|----------|---------------|
| Formaldehyde | +/-12.1% | 95.3% |

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Version 1.000
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| | LS44 | 0486 | | | | 21091 | 315 | | | | | |
|------------------------------------|--------------------------|--------------------------|-----------------------------------|--|-----------------------|--------------------------------|---------------------------------|--------------------------|----------------|-------------------------------------|---------------|----------------------------|
| SGS G | ALSON | New Client? | | hase Sepa 330 Baltim altimore, N | ore Natio | nal Pike | Invoice T | •* : <u>Phase Se</u> | eparation | Scier | | |
| 6601 Kirkvil | le Rd | <u> </u> | | | | · · · · | Phone N | lo.: 410-747-87 | 70 | | | |
| East Syracu | ise, NY 13057 | | Phone No.* : <u>4</u> | 10-747-877 | <u></u> | | | ail : invoicing@p | | e.com | | |
| Tel: (315) 4 888-43 | 32-5227 2-LABS (5227) | E | Cell No. : mail Results to :_A | | | | | lo.: ODC 49200 | | | | <u></u> |
| www.sgsga | lson.com | E | Email address: re | | | e.com | | rd : Card on File | | for Credit | t Card Inf | o. |
| | | | | | | 4 | | | | - DodaooT | M Brogrom | ~ |
| Need Results By: | (surcharge) | | V | Samples su | | g the FreePumpLoan™ | | submitted using the | | igbauges | riogram | Л |
| 1 AM Standard | | Site Name : James | K. Polk ES | | Pro | ject : ACPS IAQ te | sting - 4920002 Sam | pled by: Karl Fo | ord | | | <u> </u> |
| 4 Business Days | 35% | Comments : | | | | | | | | | | |
| 3 Business Days | 50% | Dosimeter cartri | ige # noted in t | he (Hexav | elent Chro | omium Process) o | colum | | | | | |
| 2 Business Days | 75% | | | | | | State samples were | Please indicate wh | hich OF1 this | data will b | be used fo | |
| Next Day by 6pm | 100% | List description of indu | ustry or Process/inter | rferences pres | ent in sampl | ing area : | collected in (e.g., NY) | | ACGIH TL | - | Cal O | |
| Next Day by Noon | 150% | Public grade s | chool building | | | | VA | МЅНА [| Other (spe | ecify): | | |
| Same Day | 200% | | | | le Volume ple Time | Sample Units*: | Analysis Requ | ested* | Method Refe | | | t Chromiun .g., welding |
| Sample Identif (Maxmium of 20 C | | Date Sampled | Collection Mediur | Samp | ole Area* | L, ml,min,in2,cm2,ft2 | 2,ft2 pl | | | plating, painting, etc.)* PD5199 | | |
| P - Library | | 09/09/21 | Assay N581 Aldehyde Bad | _ | | Min | Formaldehyde | | | | | |
| IP - 41 Class | | 09/09/21 | Assay N581 Aldehyde Bad | ^{lge} 242 | | Min | Formaldehyde mod. OSHA 1007: T | | | | | |
| JP - 22 Class / Ba | ind | 09/09/21 | Assay N581 Aldehyde Bac | ^{dge} 225 | | Min | Formaldehyde | | mod. OSHA 1007 | | | |
| JP - Room 1 | | 09/09/21 | Assay N581 Aldehyde Bad | ^{1ge} 216 | | Min | Formaldehyde | | mod. OSHA 1007 | | | |
| JP - Gym | | 09/09/21 | Assay N581 Aldehyde Bad | ^{dge} 222 | | Min | Formaldehyde | | mod. OSHA 1007 | <u> </u> | | |
| JP - 14 Class | | 09/09/21 | Assay N581 Aldehyde Bar | ^{dge} 220 | | Min | Formaldehyde | | mod. OSHA 1007 | | PD457 | |
| JP - 50 Class | | 09/09/21 | Assay N581 Aldehyde Ba | ^{dge} 245 | | Min | Formaldehyde | | mod, OSHA 1007 | | | |
| JP - 38 Class | | 09/09/21 | Assay N581 Aldehyde Ba | ^{dge} 237 | | Min | Formaldehyde | | mod. OSHA 1007 | | PD498 | |
| JP - Reception | | 09/09/21 | Assay N581 Aldehyde Ba | ^{dge} 233 | | Min | Formaldehyde | | mod. OSHA 1007 | | | |
| JP - Hall 107 | | 09/09/21 | Assay N581 Aldehyde Ba | ^{dge} 218 | | Min | Formaldehyde | | mod. OSHA 1007 | | | |
| IR - Hall 35 | | 09/09/21 | Assay N581 Aldehyde Ba | | | Min | Formaldehyde | | mod. OSHA 1007 | 7: TPLC/UV | PD549 | 4 |
| AGalson Laboratories v | vill subsititute ou | r routine/preferred met | hod if it does not ma | tch the metho | d listed on th | ne COC unless this box | is checked: 🔽 Use method | (s) listed on COC | | | | |
| For metals analysis: if r | equesting an ana | lyte with the option of | a lower LOQ, please | indicate if the | lower LOQ is | s required (only availab | le for certain analytes - see S | AG): | | | | : |
| For crystalline silica: fo | rm(s) of silica nee | eded must be indicated | (Quartz, Cristobalite | , and/or Tridy | mite)* : | | | - | | Dati | | |
| Chain of Custody | | int Name/Signature | | Date | Time | | Print Nar | ne/Signature | | Date | <u> </u> | Time |
| Relinquished by : Ct | | | | 09/10/21 | 13:30 | Received by: Z Received by: | anthe | VON | $\overline{1}$ | a1131 | $\frac{1}{2}$ | 124 |
| Relinquished by : | Ted | Krans | Samı | 7/13/21 ples received | 12:4 d after 3pm | will be considered a | s next day's business | | <u> </u> | | | of <u>2</u> |
| | | | | | | C 1.1 | delay in your samples be | ata a araaaaaad | | r 6 | ayo I | <u>لم</u> ال |

| SGS G | ALSON | New Client? | - D al | ase Separa 30 Baltimo timore, MI | 10 110.000 | | Invoice T | •* : <u>Phase Se</u> | eparation Scie | |
|---|---------------------|--------------------------|--|--|----------------|------------------------|---|----------------------|-------------------------|---|
| 6601 Kirkvil | le Rd | | Phone No.* :41(| -747-8770 |) | | Phone Phone | No.: 410-747-87 | 70 | |
| East Syracu Tel: (315) 4 | se, NY 13057 | | Cell No. : | | | | Em | ail: invoicing@ | phaseonline.com | |
| 888-43 | 2-LABS (5227) | F | mail Results to : <u>An</u> | | | | | No. : ODC 4920 | | |
| www.sgsga | lson.com | _ | Email address: rep | | | e.com | Credit Ca | urd : 🚺 Card on Fil | e Call for Cree | dit Card Info. |
| | | | | | | the FreePumpLoan™ F | Program Samples | submitted using the | e FreeSamplingBadge | s™Program |
| Need Results By: | (surcharge) | | | | | ect : ACPS IAQ te | sting - 4920002 San | npled by : Karl Fo | ord | |
| Standard | 0% | Site Name : James | K. POIKES | | Proje | | | <u> </u> | | |
| 4 Business Days 3 Business Days | 35% | Comments : | | | | mium Drocopo) o | olum | | | |
| 3 Business Days | 50% | Dosimeter cartri | ge # noted in th | e (Hexave | ient Chro | omium Process) c | Joium | | | |
| 2 Business Days Next Day by 6pm | 75% | List description of ind | | | nt in sampli | ng area : | State samples were | | hich OEL this data wil | |
| Next Day by 6pm | 100% | List description of ind | istry or Process/Intern | srences preser | nt in sampli | ng ulou l | collected in (e.g., NY) | 🗹 OSHA PEL | ACGIH TLV | Cal OSHA |
| Next Day by Noon | 150% | Public grade s | chool building | | | | VA | MSHA | Other (specify): | |
| Same Day | 200% | ····· | | Sample | Volume | Sample Units*: | | | Method Reference^ | Hexavalent Chromium Process (e.g., welding |
| Sample Identii (Maxmium of 20 0 | | Date Sampled | Collection Medium Sample Time Sample Area | | | L, ml,min,in2,cm2,ft2 | Analysis Req | uested* | Method Nelefence | plating, painting, etc.) |
| | | 00/00/21 | Assay N581 Aldehyde Badg | 000 | | Min | Formaldehyde | | mod. OSHA 1007: TPLC/UV | PD4208 |
| - 33 Class | | 09/09/21 | | | | Min | Formaldehyde | | mod. OSHA 1007: TPLC/UV | PD4390 |
| - Multi Purpose | | 09/09/21 | Assay N581 Aldehyde Badg | | | | Formaldehyde | | mod. OSHA 1007: TPLC/UV | PD5331 |
| P - Hall 53 | | 09/09/21 | Assay N581 Aldehyde Badg | | | Min | Formaldehyde | | mod. OSHA 1007: TPLC/UV | PD4860 |
| P - 26 Class | | 09/09/21 | Assay N581 Aldehyde Badg | » 227 | | Min | Formationyte | | | |
| | | | | | | | | | | <u> </u> |
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| | | | <u> </u> | | | | <u> </u> | | <u> </u> | <u> </u> |
| AGalson Laboratories | vill subsititute o | ur routine/preferred me | hod if it does not mat | ch the method | l listed on th | e COC unless this box | is checked: 🔽 Use metho | a(s) listed on COC | | |
| For metals analysis: if | requesting an an | alyte with the option of | a lower LOQ, please i | ndicate if the l | ower LOQ is | required (only availab | le for certain analytes - see | SAG): | | |
| For opetalling silice fr | orm(s) of silica ne | eded must be indicated | (Quartz, Cristobalite, | and/or Tridyn | nite)* : | | | | | |
| | | rint Name/Signature | | Date | Time | | Print Na | ame/Signature | Da | ate Time |
| Chain of Custody Relinquished by : C | hanning Jack | | 0 | 9/10/21 | 13:30 | Received by : | | | AT | |
| | Tool | | | (13/2) | 12:47 | | an | FUN | a 13 | 14/124 |
| Relinquished by : | | | Samn | les received | after 3pm | will be considered a | is noxt day's business | holog pressoned | | Page_2_ of _2_ |
| | | * | Required Reloc foil | ofe7to cBnep | lont Refe | fendem#vGenderlat | eleterisenterisenoles Thene krause Versio | neing processed. | | |



21091315-008

21091315-009

21091315-010

21091315-011

21091315-012

21091315-013

21091315-014

21091315-015

Chain of Custody Form for Subcontracted Analyses

Page 1 of 1

Preservative

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| Phase Separation So | cience, Inc | | WC |). No. : | 21091315 | | oles Transferred T | | |
|---|------------------------|-----------------|-----------------|------------------|--|-------------------|----------------------|--|--|
| 630 Baltimore Nat | | | w.c | J. INO. : | SGS North America | | | | |
| Baltimore, MD 212 | | | Proj | ect Location | 1 : James K. Polk ES | 6601 | Kirkville Road | | |
| Phone: (410) 747-8 Sax: (410) 788-872. | | | Proj | ect Number | : 4920002 | East Syracuse, NY | | | |
| | | | Rep | ort To LOI | D: No | Old | SGS Galson Labs | | |
| - Questions or | issues please contact: | Amber Confer | | Report I | Due On :09/21/21 05:00 | Phon | e : 315-432-522 | | |
| Lab Sample ID | Field Sample ID | Date Sampled | Time Sampled | Matrix | Analyses Required | Method | Type of Container | | |
| 21091315-001 | JP- Library | 09/09/21 | 00:00 | Air | Formaldehyde (mod. OSHA 1007; HPLC/UV) | VADIOUS | | | |
| 21091315-002 | JP- 41 Class | 09/09/21 | 00:00 | | / | VARIOUS | NONSC | | |
| 21091315-003 | | | 00:00 | Air | Formaldehyde (mod. OSHA 1007; HPLC/UV) | VARIOUS | NONSC | | |
| 21091313-003 | JP-22 Class/Band | 09/09/21 | 00:00 | Air | Formaldehyde (mod. OSHA 1007; HPLC/UV) | VARIOUS | NONSC | | |
| 21091315-004 | JP- Room 1 | 09/09/21 | 00:00 | Air | Formaldehyde (mod. OSHA 1007; HPLC/UV) | | | | |
| 21091315-005 | JP- Gym | 09/09/21 | 00:00 | | | VARIOUS | NONSC | | |
| 21001215 000 | | | 00.00 | Air | Formaldehyde (mod. OSHA 1007; HPLC/UV) | VARIOUS | NONSC | | |
| 21091315-006 | JP-14 Class | 09/09/21 | 00:00 | Air | Formaldehyde (mod. OSHA 1007; HPLC/UV) | VARIOUS | NONSC | | |
| 21091315-007 | JP- 50 Class | 09/09/21 | 00:00 | Air | Formaldehyde (mod. OSHA 1007; HPLC/UV) | | | | |
| | | | 4 I | | | VARIOUS | I NONSC | | |

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d To: -NY

13057

bs. bsc 227

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Data Deliverables Required: COA

JP-38 Class

JP-Reception

JP- Hall 107

JP- Hall 35

JP-33 Class

JP- Multi Purpose

JP- Hall 53

JP-26 Class

Send Report Attn : reporting@phaseonline.com

09/09/21

09/09/21

09/09/21

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| Perform | Q.C. | on | Sample |
|---------|------|----|--------|
|---------|------|----|--------|

Formaldehyde (mod. OSHA 1007; HPLC/UV)

Send InvoiceAttn : invoicing@phaseonline.com

VARIOUS

VARIOUS

VARIOUS

VARIOUS

VARIOUS

VARIOUS

VARIOUS

VARIOUS

| Airbill No.: | rier: NAPS | Senu InvolceAttii: | <u>mvolcing@phaseonine.com</u> |
|---------------------------|---------------------------------------|---|-------------------------------------|
| Condition Upon Receipt : | <u>V(1 ></u> | | 1Z2313E40166036170 Date:09/14/21 |
| Comments : | | | Shipper:UPS Initials:MAK |
| Samples Relinquished By : | Date : 9 13 2 Time: Samples | Received By : | Prep:UNKNOWN |
| Samples Relinquished By: | Date : Time : Samples | Received By: | |
| Samples Relinquished By: | Date: Page 7 of The: Report Reference | e:1 Genterater 21/25 EQ 21 98:21 Juchelle Received By: | - Knause 9/1419 000 |
| | Page 10 c | of 14 Version 1.000 | / |

| HASE | |
|------------|--|
| SEPARATION | |
| SCIENCE | |

Project Name:ACPS IAQ TestingPSS Project No.:21091315

Any holding time exceedances, deviations from the method specifications, regulatory requirements or variations to the procedures outlined in the PSS Quality Assurance Manual are outlined below.

Matrix spike and matrix spike duplicate analyses may not be performed due to insufficient sample quantity. In these instances, a laboratory control sample and laboratory control sample duplicate are analyzed unless otherwise noted or specified in the method.

Sample Receipt:

All sample receipt conditions were acceptable.

NELAP accreditation was held for all analyses performed unless noted below. See www.phaseonline.com for complete PSS scope of accreditation.

2/09/315

| | SGS | GALSO | New Clien | 6630 Baltimore National Pike | | | | Invoice T | ^{o* :} Phase S | Separa | tion Sci | ence | | | |
|---|---|---------------------------------|--|---|---------------------|----------------------|-------------------------------------|---|--------------------------------|--|-----------------------|---------------|--------------------------------|------------------|----------|
| | ľ | | Client Account | t No.*: | Ba | altimore, | MD 2122 | 8 | | | | - <u></u> | | | |
| | 6601 I | Girkville Rd | | | | | | | | | <u></u> | | | | |
| East Syracuse, NY 13057 Phone No.* : 410-747-8770 | | | | | | | | Phone N | No.: <u>410-747-8</u> | 770 | | | | | |
| | | 38-432-LABS (522) | 7) | | No. : | | | | | Email : <u>invoicing@phaseonline.com</u> | | | | | |
| | www. | gsgalson.com | | Email Resul | | | | | | | lo. : <u>ODC 492(</u> | | 1 | | |
| | Email address: reporting@phaseonline.com Credit Card : Card on File Call for Credit Card Info. | | | | | | Info. | | | | | | | | |
| | Need Results By | : (surcharge) | harge) Samples submitted using the FreePumpLoan™Program Samples submitted using the FreeSamplingBadges™Program | | | | | | ram | | | | | | |
| | Stan | | Site Name : Jame | s K. Polk E | S | | Pr | oject : ACPS IAQ te | esting - 492 | 0002 Samp | oled by : Karl F | ord | | | |
| | 4 Business [| | Comments : | | | | | | | | | | | | |
| | 3 Business (2 Business (| | Dosimeter cart | rige # note | ed in th | e (Hexa | velent Chr | omium Process) | colum | | | | | | |
| | Next Day by 6 | pm 100% | List description of in | dustry or Proce | ss/interfe | rences pre | sent in samp | ling area : | State sample | s were | Please indicate w | which OF | | | |
| | Next Day by N | oon 150% | 7 | | | | • | 5 | collected in (| | OSHA PEL | | | Cal | |
| | Same | Day 200% | | Public grade school building VA | | | | | | | MSHA | Other | | | |
| | | entification* 20 Characters) | Date Sampled | Collection Medium Sample Volume Sample Units*: Sample Time L, ml,min,in2,cm2,ft2 | | | | Analysis Requested* | | Method | Reference^ | Process | ent Chromium (e.g., welding | | |
| JP - | Library | | 09/09/21 | | | | | Formaldehy | de | | mod OSHA | 1007: TPLC/UV | plating, PD51 | painting, etc.)* | |
| JP - | 41 Class | | 09/09/21 | Assay N581 Alde | hyde Badge | 242 | | Min | Formaldehyde | | | | PD55 | | |
| JP - | 22 Class | band | 09/09/21 | Assay N581 Alde | hyde Badge | 225 | | Min | Formaldehyd | | | | | | |
| | Room 1 | | 09/09/21 | Assay N581 Alde | hyde Badge | 216 | | Min | Formaldehyd | | | | | | |
| JP - | Gym | | 09/09/21 | Assay N581 Alde | nyde Badge | 222 | | Min | Formaldehyd | | | | | | |
| JP - | 14 Class | | 09/09/21 | Assay N581 Alde | nyde Badge | 220 | | Min | Formaldehyd | | | | | | |
| JP - | 50 Class | | 09/09/21 | Assay N581 Alde | nyde Badge | 245 | | Min | Formaldehyc | le | | | | PD45 | |
| | 38 Class | | 09/09/21 | Assay N581 Alde | nyde Badge | 237 | | Min | Formaldehyc | le | | mod. OSHA | | PD49 | |
| JP - | Reception | | 09/09/21 | Assay N581 Alde | iyde Badge | 233 | | Min | Formaldehyc | e | | mod. OSHA 1 | 007: TPLC/UV | PD497 | 73 |
| JP - | Hall 107 | | 09/09/21 | Assay N581 Aldel | iyde Badge | 218 | | Min | Formaldehyd | e | | mod. OSHA 1 | | PD508 | |
| JP - | Hall 35 | | 09/09/21 | Assay N581 Aldel | yde Badge | 236 | | Min | Formaldehyd | e | | mod. OSHA 1 | 007: TPLC/UV | PD549 |)4 |
| ^Gal | son Laboratorie | s will subsititute our | routine/preferred meth | od if it does n | ot match | the method | i listed on the | COC unless this box is | checked: | Use method(s) | listed on COC | | | | <u> </u> |
| | AGalson Laboratories will subsititute our routine/preferred method if it does not match the method listed on the COC unless this box is checked: 🔽 Use method(s) listed on COC For metals analysis: if requesting an analyte with the option of a lower LOQ, please indicate if the lower LOQ is required (only available for certain analytes - see SAG): | | | | | | | | | | | | | | |
| | For crystalline silica: form(s) of silica needed must be indicated (Quartz, Cristobalite, and/or Tridymite)*: | | | | | | | | | | | | | | |
| | of Custody | | nt Name/Signature | | D | ate | Time | | | Print Name | /Signature | | Date | , | Time |
| Relin | quished by : (| hanning Jacks | | | 09/ | 10/21 | 13:30 | Received by : | | | - | | | | |
| Relin | quished by : | Tedl | Craus | | | 3/21 | 12:47 | | an | ln ? | Com | | a/131 | 2 | 1242 |
| | | | * Re | equired fields | amples , failure | received a to comple | after 3pm w ete these fie Pag | rill be considered as elds may result in a c e 12 of 14 | next day's bu lelay in your | isiness samples being | a processed. | | Pa | ge_1 | of _2_ |

| 2 | 100 | 113 | 15 |
|---|-----|-----|----|
| | | | |

| SGS GALSON | Client Account No. | Dat | 30 Baltin | aration So Tore Natio VID 21228 | onal Pike | | Invoice T | ^{o* :} Phase S | eparation Sc | ience | |
|---|---|---|--|---------------------------------------|---|------------------------|--|-------------------------|------------------------|--------------|--|
| 6601 Kirkville Rd East Syracuse, NY 13057 Tel: (315) 432-5227 888-432-LABS (5227) www.sgsgalson.com | Ema | Cell No. : ail Results to : <u>Am</u> mail address <u>: rep</u> | to : <u>Amber Confer</u> ess: reporting@phaseonline.com | | | | Phone No.: <u>410-747-8770</u> Email : <u>invoicing@phaseonline.com</u> P.O. No. : <u>ODC 4920002-001</u> Credit Card : Card on File Call for Credit Card Info. | | | | Info. |
| Need Results By: (surcharge) | ✓ Samples submitted using the FreePumpLoan [™] Program Samples submitted using the FreeSamplingBadges [™] Program | | | | | | | | | | |
| Standard 0% Sit | te Name : James K. | Polk ES | | Pro | ject : ACPS IAQ te | sting - 492000 | 2 Samı | oled by: Karl F | ord | | |
| 4 Business Days 35% Co | omments : | | | | | | | | | | |
| 3 Business Days 50% | Dosimeter cartrige | # noted in the | (Hexav | elent Chro | omium Process) o | olum | | | | | |
| 2 Business Days 75% | | | ` | | | | | | | | |
| | st description of industry | y or Process/interfer | ences pres | ent in sampli | ing area : | State samples we | | | hich OEL this data w | rill be usec | l for : |
| Next Day by Noon 150% | Public grade sch | ool building | | | | collected in (e.g., | NY) | OSHA PEL | ACGIH TLV | Cal | OSHA |
| Same Day 200% | | | | | | VA | | MSHA | Other (specify): | | |
| Sample Identification* (Maxmium of 20 Characters) | Date Sampled C | Collection Medium | Samp | e Volume Ie Time Ie Area* | Sample Units*: L, ml,min,in2,cm2,ft2 | Ana | ysis Reque | ested* | Method Reference | Process | ent Chromium (e.g., welding painting, etc.)* |
| JP - 33 Class | 09/09/21 Assa | ay N581 Aldehyde Badge | 229 | | Min | Formaldehyde | | | mod. OSHA 1007: TPLC/U | | |
| JP - Multi Purpose | 09/09/21 Assa | ay N581 Aldehyde Badge | dehyde Badge 222 Min Formaldehyde | | | mod. OSHA 1007: TPLC/U | v PD43 | 90 | | | |
| JP - Hall 53 | 09/09/21 Assi | ay N581 Aldehyde Badge | | | | | | | | | |
| JP - 26 Class | 09/09/21 Assa | ay N581 Aldehyde Badge | 227 | | Min | Formaldehyde | | | mod. OSHA 1007: TPLC/U | | |
| | | | | | | | | | | | |
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| | | | | | | | <u> </u> | | | <u> </u> | |
| AGalson Laboratories will subsititute our rout | tine/oreferred method if | f it does not match t | he method | listed on the | COC unless this box is | checked: | method/a | listed on COC | | | |
| For metals analysis: if requesting an analyte w | | | | | | | | | | · | |
| For crystalline silica: form(s) of silica needed r | | | | | ogeneo (ony available | | | +/• · | | | |
| | lame/Signature | | ate | Time | | p | rint Name | e/Signature | | ate | Time |
| Relinguished by : Channing Jackson | tanio orginataro | | 0/21 | 13:30 | Received by : | | | soignature | | 116 | inne |
| | fra-s | | 13/21 | 12:47 | Received by : | are | ~ ~ | han | a 13 | 121 | 1242 |
| <u> </u> | | Samples | received a | after 3pm w | ill be considered as Ids may result in a c 13 of 14 | next day's busin | ess | | | f | of 2 |



SCIENCE

Project Name: ACPS IAQ Testing PSS Project No.: 21091315

| Client Name | Total Environmental Concepts - | Lorto | Received By | Amber Co | nfer |
|-----------------|--|-----------|--------------|---------------------------------|----------------|
| Disposal Date | 10/18/2021 | | Date Receive | d 09/13/202 ⁻ | 1 12:42:00 PM |
| | | | Delivered By | Client | |
| | | | Tracking No | Not Applica | ble |
| | | | Logged In By | Amber Co | ofer |
| Shipping Conta | iner(s) | | | | |
| No. of Coolers | 0 | | | | |
| | | | Ice | Ν | I/A |
| Custody Seal(s | | N/A | Temp (de | | |
| Seal(s) Signed | / Dated? | N/A | Temp Blar | nk Present N | lo |
| Documentation | | | Sampler N | lame <u>Kar</u> | I Ford |
| COC agrees w | ith sample labels? | Yes | MD DW C | ert. No. <u>N/A</u> | <u>\</u> |
| Chain of Custo | dy | Yes | | | |
| Sample Contain | er | | Custody S | eal(s) Intact? | Not Applicable |
| Appropriate for | Specified Analysis? | Yes | Seal(s) Si | gned / Dated | Not Applicable |
| Intact? | | Yes | | gried, Dated | not applicable |
| Labeled and La | abels Legible? | Yes | | | |
| Holding Time | | | Total No. | of Samples R | eceived 15 |
| All Samples Re | eceived Within Holding Time(s)? | Yes | Total No. | of Containers | Received 15 |
| Preservation | | | | | |
| Total Metals | | | | pH<2) | N/A |
| | als, filtered within 15 minutes of co | | | pH<2) | N/A |
| | rus, filtered within 15 minutes of c | ollection | | | N/A |
| Cyanides | | | | pH>12) | N/A |
| Sulfide | | | | pH>9) | N/A |
| | ld filtered), COD, Phenols | | | pH<2) | N/A |
| TOX, TKN, NH | - | | | pH<2) | N/A |
| | OA Vials Rcvd Preserved) | | (| pH<2) | N/A N/A |
| | have zero headspace? d at least one unpreserved VOA v | (ial) | | | N/A N/A |
| • | d with trip blanks) | ndi) | | pH<2) | N/A N/A |
| 524 VOC (RCV | u with the blanks | | (| prisz) | IN/A |

Comments: (Any "No" response must be detailed in the comments section below.)

For any improper preservation conditions, list sample ID, preservative added (reagent ID number) below as well as documentation of any client notification as well as client instructions. Samples for pH, chlorine and dissolved oxygen should be analyzed as soon as possible, preferably in the field at the time of sampling. Samples which require thermal preservation shall be considered acceptable when received at a temperature above freezing to 6°C. Samples that are hand delivered on the day that they are collected may not meet these criteria but shall be considered acceptable if there is evidence that the chilling process has begun such as arrival on ice.

Samples Inspected/Checklist Completed By:

Date: 09/13/2021

PM Review and Approval:

NY Hackson

Amber Confer

Lynn Jackson Page 14 of 14 Date: 09/13/2021

Version 1.000

| | SGS | GALSON | New Client? | Report To* : | | | | | Invoice T | o* : | | | | |
|----------|-----------------------------|---------------------------------|--------------------------|----------------------|--------------------|---------------------------------------|---|-----------------|---------------|--------------------|------------|-------------|-------------|--|
| | | UALUUT | Client Account N | | | | | | | | | | | |
| | 6601 Kir | kville Rd | | - | | | | | | | | | | |
| | East Syı | acuse, NY 13057 | | Phone No.* : | | | | | Phone I | No.: | | | | |
| | | 5) 432-5227 -432-LABS (5227) | | Cell No. : | | | | | Em | ail : | | | | |
| | | . , | E | mail Results to : | | | | | P.O. N | lo. : | | | | |
| | www.sg | sgalson.com | | Email address: | | | | | Credit Ca | rd : 📃 Card on Fi | ile 🗌 C | all for Cre | dit Card Ir | nfo. |
| | Need Results By: | (surcharge) | | [| Samples | submitted usir | ng the FreePumpLoan™ | Program | Samples | submitted using th | e FreeSamp | lingBadge | es™Progra | am |
| | Standa | rd 0% | Site Name : | | | Pro | oject : | | Sam | pled by : | | | | |
| | 4 Business Da | ys 35% | Comments : | | | | | | | | | | | |
| | 3 Business Da | ys 50% | | | | | | | | | | | | |
| | 2 Business Da | ys 75% | | | | | | | | | | | | |
| | Next Day by 6p | m 100% | List description of indu | stry or Process/int | erferences pr | esent in samp | ling area : | State samp | | Please indicate w | | | l be used | for : |
| | Next Day by No | on 150% | | | | | | collected in | (e.g., NY) | OSHA PEL | ACGIH | TLV | Cal | OSHA |
| | Same Da | ay 200% | | | | | | | | MSHA | Other (s | pecify): | | |
| | Sample Ide (Maxmium of 2 | | Date Sampled | Collection Media | ım Sar | ple Volume nple Time nple Area* | Sample Units*: L, ml,min,in2,cm2,ft2 | | Analysis Requ | ested* | Method Re | eference^ | Process (| nt Chromium e.g., welding painting, etc.)* |
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| ^Ga | Ison Laboratories | will subsititute our | routine/preferred metho | od if it does not ma | I Itch the meth | od listed on th | l ne COC unless this box i | s checked: | Use method(| s) listed on COC | | | | |
| For | metals analysis: i | f requesting an anal | yte with the option of a | lower LOQ, please | indicate if the | e lower LOQ is | s required (only availabl | e for certain a | | | | | | |
| For | crystalline silica: | form(s) of silica need | ded must be indicated (0 | Quartz, Cristobalite | , and/or Trid | ymite)* : | | | | | | | | |
| Chai | n of Custody | Pri | nt Name/Signature | | Date | Time | | | Print Nam | ne/Signature | | Da | te | Time |
| <u> </u> | nquished by : | | - | | | | Received by : | | | - | | | | |
| L | nquished by : | | | | | | Received by : | | | | | | | |
| | I | | * Re | | | • | will be considered as fields may result in a | | | ing processed. | 1 | F | Page | of |

Appendix E: 4-PCH Analytical Results



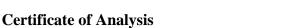
Project Name: ACPS IAQ Testing PSS Project No.: 21091314

September 21, 2021

Karl Ford Total Environmental Concepts - Lorton 8382 Terminal Road, Suite B Lorton, VA 22079

Reference: PSS Project No: **21091314** Project Name: ACPS IAQ Testing Project Location: Jakes K. Polk ES Project ID.: 4920002

Dear Karl Ford:





This report includes the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Phase Separation Science (PSS) Project number(s) **21091314**.

All work reported herein has been performed in accordance with current NELAP standards, referenced methodologies, PSS Standard Operating Procedures and the PSS Quality Assurance Manual unless otherwise noted in the Case Narrative Summary. PSS is limited in liability to the actual cost of the sample analysis done.

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on October 18, 2021, with the exception of air canisters which are cleaned immediately following analysis. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt, the request will be acknowledged by PSS, thus extending the storage period.

This report shall not be reproduced except in full, without the written approval of an authorized PSS representative. A copy of this report will be retained by PSS for at least 5 years, after which time it will be disposed of without further notice, unless prior arrangements have been made.

We thank you for selecting Phase Separation Science, Inc. to serve your analytical needs. If you have any questions concerning this report, do not hesitate to contact us at 410-747-8770 or info@phaseonline.com.

Sincerely,

Dan Prucnal

Laboratory Manager



Version 1.000



Project Name: ACPS IAQ Testing PSS Project No.: 21091314

Project ID: 4920002

The following samples were received under chain of custody by Phase Separation Science (PSS) on 09/13/2021 at 12:42 pm

| PSS Sample ID | Sample ID | Matrix | Date/Time Collected | |
|---------------|------------------|--------|---------------------|--|
| 21091314-001 | JP-Library | AIR | 09/09/21 00:00 | |
| 21091314-002 | JP-41 Class | AIR | 09/09/21 00:00 | |
| 21091314-003 | JP-22 Class/Band | AIR | 09/09/21 00:00 | |
| 21091314-004 | JP-Room 1 | AIR | 09/09/21 00:00 | |
| 21091314-005 | JP-Gym | AIR | 09/09/21 00:00 | |
| 21091314-006 | JP-Class 14 | AIR | 09/09/21 00:00 | |
| 21091314-007 | JP-Class 50 | AIR | 09/09/21 00:00 | |
| 21091314-008 | JP-Class 38 | AIR | 09/09/21 00:00 | |
| 21091314-009 | JP-Reception | AIR | 09/09/21 00:00 | |
| 21091314-010 | JP-Hall 107 | AIR | 09/09/21 00:00 | |
| 21091314-011 | JP-Hall 35 | AIR | 09/09/21 00:00 | |
| 21091314-012 | JP-Class 33 | AIR | 09/09/21 00:00 | |
| 21091314-013 | JP-Multi Purpose | AIR | 09/09/21 00:00 | |
| 21091314-014 | JP-Hall 53 | AIR | 09/09/21 00:00 | |
| 21091314-015 | JP-Class 26 | AIR | 09/09/21 00:00 | |

Please reference the Chain of Custody and Sample Receipt Checklist for specific container counts and preservatives. Any sample conditions not in compliance with sample acceptance criteria are described in Case Narrative Summary.

Notes:

- 1. The presence of a common laboratory contaminant such as methylene chloride may be considered a possible laboratory artifact. Where observed, appropriate consideration of data should be taken.
- 2. Unless otherwise noted in the case narrative, results are reported on a dry weight basis with the exception of pH, flashpoint, moisture, and paint filter test.
- 3. Drinking water samples collected for the purpose of compliance with SDWA may not be suitable for their intended use unless collected by a certified sampler [COMAR 26.08.05.07.C.2].
- 4. The analyses of 1,2-dibromo-3-chloropropane (DBCP) and 1,2-dibromoethane (EDB) by EPA 524.2 and calcium, magnesium, sodium and iron by EPA 200.8 are not currently promulgated for use in testing to meet the Safe Drinking Water Act and as such cannot be used for compliance purposes. The listings of the current promulgated methods for testing in compliance with the Safe Drinking Water Act can be found in the 40 CFR part 141.1, for the primary drinking water contaminates, and part 141.3, for the secondary drinking water contaminates.
- 5. Sample prepared under EPA 3550C with concentrations greater than 20 mg/Kg should employ the microtip extraction procedure if required to meet data quality objectives.
- 6. The analysis of acrolein by EPA 624 must be analyzed within three days of sampling unless pH is adjusted to 4-5 units [40 CFR part 136.3(e)].

7. Method 180.1, The Determination of Turbidity by Nephelometry, recommends samples over 40 NTU be diluted until the turbidity falls below 40 units. Routine samples over 40 NTU may not be diluted as long as the data quality objectives are not affected.

8. Alkalinity results analyzed by EPA 310.2 that are reported by dilution are estimated and are not in compliance with method requirements.



Explanation of Qualifiers

SCIENCE

Project Name: ACPS IAQ Testing

PSS Project No.: 21091314

Standard Flags/Abbreviations:

- В A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- С Results Pending Final Confirmation.
- Е The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- The result exceeds the regulatory level for Toxicity Characteristic (TCLP) as cited in 40 CFR 261.24 Table 1. Fail
- J The target analyte was positively identified below the reporting limit but greater than the MDL.
- MDL This is the Laboratory Method Detection Limit which is equivalent to the Limit of Detection (LOD). The LOD is an estimate of the minimum amount of a substance that an analytical process can reliably detect. This value will remain constant across multiple similar instrumentation and among different analysts. An LOD is analyte and matrix specific.
- ND Not Detected at or above the reporting limit.
- PSS Reporting Limit. RL
- U Not detected.

Certifications:

NELAP Certifications: PA 68-03330, VA 460156 State Certifications: MD 179, WV 303 Regulated Soil Permit: P330-12-00268 NSWC USCG Accepted Laboratory LDBE MWAA LD1997-0041-2015



Ms. Amber Confer Phase Separation Science, Inc. 6630 Baltimore National Pike Baltimore, MD 21228

September 21, 2021

Account# 15354

Login# L546497

Dear Amber Confer:

Enclosed are the analytical results for the samples received by our laboratory on September 14, 2021. All samples on the chain of custody were received in good condition unless otherwise noted. Any additional observations will be noted on the chain of custody.

Please contact client services at (888) 432-5227 if you would like any additional information regarding this report. Thank you for using SGS Galson.

Sincerely,

SGS Galson

Lisa-Luab

Lisa Swab Laboratory Director

Enclosure(s)



ANALYTICAL REPORT

Terms and Conditions & General Disclaimers

- This document is issued by the Company under its General Conditions of Service accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.
- Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Analytical Disclaimers

- Unless otherwise noted within the report, all quality control results associated with the samples were within established control limits or did not impact reported results.
- Note: The findings recorded within this report were drawn from analysis of the sample(s) provided to the laboratory by the Client (or a third party acting at the Client's direction). The laboratory does not have control over the sampling process, including but not limited to the use of field equipment and collection media, as well as the sampling duration, collection volume or any other collection parameter used by the Client. The findings herein constitute no warranty of the sample's representativeness of any sampled environment, and strictly relate to the samples as they were presented to the laboratory. For recommended sampling collection parameters, please refer to the Sampling and Analysis Guide at www.sgsgalson.com.
- Unrounded results are carried through the calculations that yield the final result and the final result is rounded to the number of significant figures appropriate to the accuracy of the analytical method. Please note that results appearing in the columns preceding the final result column may have been rounded and therefore, if carried through the calculations, may not yield an identical final result to the one reported.
- The stated LOQs for each analyte represent the demonstrated LOQ concentrations prior to correction for desorption efficiency (if applicable).
- Unless otherwise noted within the report, results have not been blank corrected for any field blank or method blank data.

Accreditations SGS Galson holds a variety of accreditations and recognitions. Our quality management system conforms with the requirements of ISO/IEC 17025. Where applicable, samples may also be analyzed in accordance with the requirements of ELAP, NELAC, or LELAP under one of the state accrediting bodies listed below. Current Scopes of Accreditation can be viewed at http://www.sgsgalson.com in the accreditations section of the "About" page. To determine if the analyte tested falls under our scope of accreditation, please visit our website or call Client Services at (888) 432-5227.

| National/International | Accreditation/Recognition | Lab ID# | Program/Sector |
|-------------------------------------|-------------------------------|---------------|---|
| AIHA-LAP, LLC - IHLAP, ELLAP, EMLAP | ISO/IEC 17025 and USEPA NLLAP | Lab ID 100324 | Industrial Hygiene, Environmental Lead, |
| | | | Environmental Microbiology |

| State | Accreditation/Recognition | Lab ID# | Program/Sector |
|--------------------|------------------------------|---------------|---|
| New York (NYSDOH) | ELAP and NELAC (TNI) | Lab ID: 11626 | Air Analysis, Solid and Hazardous Waste |
| New Jersey (NJDEP) | NELAC (TNI) | Lab ID: NY024 | Air Analysis |
| Louisiana (LDEQ) | LELAP | Lab ID: 04083 | Air Analysis, Solid Chemical Materials |
| Texas | Texas Dept. of Licensing and | Lab ID: 1042 | Mold Analysis Laboratory license |
| | Regulation | | |

Legend

| < - Less than > - Greater than - Liters LOQ - Limit of Quantitation ft2 - Square Feet mg - Milligrams mg - Micrograms mg - Micrograms mg - Cubic Meters kg - Kilograms cm2 - Square Centimeter | NA - Not Applicable ppn NS - Not Specified ppb ND - Not Detected ppn | 9 - Parts per Billion n - Parts per Million w - ppb Volume nv - ppm Volume • Nanograms |
|--|--|--|
|--|--|--|

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Version 1.000
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6601 Kirkville Road East Syracuse, NY 13057

FAX: (315) 437-0571 www.sgsgalson.com

(315) 432-5227

LABORATORY ANALYSIS REPORT

| Client | : Phase Separation Science, Inc. | Account No.: 15354 |
|---------------|----------------------------------|---------------------------|
| Site | : JAMES K. POLK ES | Login No. : L546497 |
| Project No. | : ACPS IAQ TESTING - 4920002 | |
| Date Sampled | : 09-SEP-21 | Date Analyzed : 17-SEP-21 |
| Date Received | : 14-SEP-21 | Report ID : 1265461 |

4-Phenylcyclohexene (4PCH low LOQ)

| Sample ID | Lab ID | Air Vol liter | Front ug | Back uq | Total uq | Conc mg/m3 | ppm |
|--------------------|------------|------------------|-------------|------------|-------------|---------------|---------|
| JP - LIBRARY | L546497-1 | 44.4 | <0.2 | <0.2 | <0.2 | <0.005 | <0.0007 |
| JP - 41 CLASS | L546497-2 | 48.4 | <0.2 | <0.2 | <0.2 | <0.004 | <0.0007 |
| JP - 22 CLASS/BAND | L546497-3 | 45 | <0.2 | <0.2 | <0.2 | <0.005 | <0.0007 |
| JP - ROOM 1 | L546497-4 | 43.2 | <0.2 | <0.2 | <0.2 | <0.005 | <0.0007 |
| JP - GYM | L546497-5 | 44.4 | <0.2 | <0.2 | <0.2 | <0.005 | <0.0007 |
| JP - CLASS 14 | L546497-6 | 44 | <0.2 | <0.2 | <0.2 | <0.005 | <0.0007 |
| JP - CLASS 50 | L546497-7 | 49 | <0.2 | <0.2 | <0.2 | <0.004 | <0.0007 |
| JP - CLASS 38 | L546497-8 | 47.4 | <0.2 | <0.2 | <0.2 | <0.004 | <0.0007 |
| JP - RECEPTION | L546497-9 | 46.6 | <0.2 | <0.2 | <0.2 | <0.004 | <0.0007 |
| JP - HALL 107 | L546497-10 | 43.6 | <0.2 | <0.2 | <0.2 | <0.005 | <0.0007 |
| JP - HALL 35 | L546497-11 | 47.2 | <0.2 | <0.2 | <0.2 | <0.004 | <0.0007 |
| JP - CLASS 33 | L546497-12 | 45.8 | <0.2 | <0.2 | <0.2 | <0.005 | <0.0007 |
| JP - MULTI PURPOSE | L546497-13 | 44.4 | <0.2 | <0.2 | <0.2 | <0.005 | <0.0007 |
| JP - HALL 53 | L546497-14 | 46 | <0.2 | <0.2 | <0.2 | <0.004 | <0.0007 |
| JP - CLASS 26 | L546497-15 | 45.4 | <0.2 | <0.2 | <0.2 | <0.005 | <0.0007 |

<u>COMMENTS:</u> Please see attached lab footnote report for any applicable footnotes.

| Level of Quantitation: 0.2 ug | Submitted by: ECB | Approved by: MLN |
|--|--------------------------------------|------------------|
| Analytical Method : mod. NIOSH 1501; GC/PID Collection Media : 226-01 | Date : 20-SEP-21 Supervisor : KAG | |

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Version 1.000
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LABORATORY FOOTNOTE REPORT

Client Name : Phase Separation Science, Inc. Site : JAMES K. POLK ES Project No. : ACPS IAQ TESTING - 4920002 6601 Kirkville Road East Syracuse, NY 13057 Date Sampled : 09-SEP-21 Account No.: 15354 (315) 432-5227 Date Received: 14-SEP-21 Login No. : L546497 FAX: (315) 437-0571 Date Analyzed: 17-SEP-21 www.sgsgalson.com

L546497 (Report ID: 1265461):

Total ug corrected for a desorption efficiency of 97%. SOPs: GC-SOP-16(26), GC-SOP-8(27), GC-SOP-12(20)

L546497 (Report ID: 1265461):

Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2). The estimated accuracy applies to the media, technology, and SOP referenced in this report and does not account for the uncertainty associated with the sampling process. The accuracy is based solely on spike recovery data from internal quality control samples. Where N/A appears below, insufficient data is available to provide statistical accuracy and mean recovery values for the associated analyte.

| Parameter | | | Accuracy | Mean Recovery | | |
|---------------------|-----------|------|----------|---------------|--|--|
| 4-Phenylcyclohexene | (4PCH low | LOQ) | +/-18% | 88.2% | | |

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Version 1.000
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| 1Z2 | 2313E40165206989 | 9 | 1546 | 497 | | | | 21091 | 1314 | | | | | | |
|--|--|---|---|--|--|-----------|---------------------------------|---|---|--------------------------|------------------|---------------------|-------------|---|--|
| Sh. | e:09/14/21 ipper:UPS itials:BGF | | New Client? Report To* : Phase Separation Science 6630 Baltimore National Pike | | | | | | Invoice To* : Phase Separation Science | | | | | | |
| Pr | ep : UNKNOWN | | Client Account N | lo.*: | - Balti | more, N | 4D 21228 | | | | | | | | |
| саят Syracuse, NY 13057 Tel: (315) 432-5227 888-432-LABS (5227) www.sgsgalson.com | | Phone No.* :410-747-8770 Cell No. : Email Results to : <u>Amber Confer</u> Email address: <u>reporting@phaseonline.com</u> | | | | | | | Phone No.: 410-747-8770 Email : invoicing@phaseonline.com P.O. No. : ODC 4920002-001 Credit Card : Card on File Call for Credit Card Info. | | | | | | |
| - | Need Results By: | (surcharge) | Samples submitted using the FreePumpLoan [™] Program Samples submitted using the FreeSamplingBadges [™] Program | | | | | | | | | | | | |
| I | | 0% | Site Name : James | K. Polk ES | | | Pro | ect : ACPS IAQ te | sting - 492 | 0002 Samp | led by: Karl F | ord | | | |
| | 4 Business Days | 35% | Comments : Y | id "He | 11 1 | 0-7" | | | | | | _ | | | |
| | 3 Business Days | 50% | - | | | | | a 1 | | | | | | | |
| | 2 Business Days | 75% | <u> </u> | V Id | <u> </u> | ALL | 37" | B6F 91 | · · · · · · · · · · · · · · · · · · · | | | | | | |
| | Next Day by 6pm | 100% | List description of ind | List description of industry or Process/interferences present in sampling area : State samples were collected in (e.g., NY) Version OSHA PEL ACGIH TLV | | | | | | | | ed for : al OSHA | | | |
| | Next Day by Noon | 150% | Public grade school | | | | | | | | Other (specify): | | | | |
| | Same Day Sample Identifi (Maxmium of 20 C | | Date Sampled | Collection Me | edium | Samp | e Volume le Time le Area* | Sample Units*: L, ml,min,in2,cm2,ft2 | | Analysis Reque | | Method Refere | nce^ Proce | valent Chromium ss (e.g., welding g, painting, etc.)* | |
| | P - Library | | 09/09/21 | Sm Charcoal tubes | / 226-01 4 | 44.4 | | L | 4-Phenylcy | clohexene | | mod. NIOSH | 1501 | | |
| | - 41 Class | | 09/09/21 | Sm Charcoal tubes | / 226-01 | 48.4 | | L | 4-Phenylcy | lohexene | | mod. NIOSH | 1501 | | |
| J | - 22 Class / Ba | nd | 09/09/21 | Sm Charcoal tubes | / 226-01 | 45.0 | | L | 4-Phenylcy | clohexene | | mod. NIOSH | 1501 | | |
| | - Room 1 | <u> </u> | 09/09/21 | Sm Charcoal tubes | / 226-01 | 43.2 | | L | 4-Phenylcy | clohexene | | mod. NIOSH | 1501 | | |
| - | ⊃ - Gym | | 09/09/21 | Sm Charcoal tubes | / 226-01 | 44.4 | | L | 4-Phenylcy | clohexene | | mod. NIOSH | 1501 | | |
| | P - Class 14 | | 09/09/21 | Sm Charcoal tubes | / 226-01 | 44.0 | | L | 4-Phenylcy | clohexene | | mod. NIOSH | 1501 | | |
| | P - Class 50 | | 09/09/21 | Sm Charcoal tubes | bes / 226-01 49.0 | | | L | 4-Phenylcyclohexene | | mod. NIOSH 1501 | | | | |
| ⊢ ⊢ | P - Class 38 | | 09/09/21 | Sm Charcoal tubes / 226-01 47.4 | | L | 4-Phenylcyclohexene | | mod. NIOSH 1501 | | | | | | |
| - H- | P - Reception | | 09/09/21 | Sm Charcoal tubes | harcoal tubes / 226-01 46.6 harcoal tubes / 226-01 43.6 | | L | 4-Phenylcyclohexene | | mod. NIOSH 1501 | | | | | |
| 1 | | 6/19/21 | 09/09/21 | Sm Charcoal tubes | | | | L | 4-Phenylcyclohexene | | mod. NIOSH 1501 | | | | |
| | JP - Hall 107 09/09/21 Sm Charcoal tubes / 22 JP - Hall 35, 19 09/09/21 Sm Charcoal tubes / 22 | | | | | | | | | mod. NIOSH 1501 | | | | | |
| | Galson Laboratories wi | ill subsititute ou | | l nod if it does not | match tl | he method | l listed on the | e COC unless this box is | s checked: 🕨 | Use method(s | s) listed on COC | L | | | |
| | For metals analysis: if re | | | | | | | | | - | | | | | |
| | For crystalline silica: for | | | | | | | | | | 1 | <u></u> . <u></u> | | | |
| - H | hain of Custody | | | | | Time | | Print Name/Signature | | | | Date | | | |
| | lelinguished by : Cha | | | | 09/1 | 0/21 | 13:30 | Received by : | | | | | | | |
| | lelinquished by : | | Krans | | | 3/21 | 1246 | Received by: Men 705 9 | | | 13/21 | 1242 | | | |
| | | | * R | | | | | vill be considered as elds may result in a ence: I Generate | | rsamples bei 21 08.25 | ng processed. | | | <u>1</u> of <u>2</u> | |

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| SGS | GALSO | New Client | ? Report To | 663 | 30 Baltim | ore Natio | nal Pike | I | nvoice To | o* : Phase S | eparation S | Science | |
|--------------------------|--|---------------------------|---|------------------------|--------------|--------------------------------|---|-----------------------|----------------|--|-------------------------|----------------------|--|
| | | Client Account | No.*: | Bat | timore, N | 1D 21228 | | | | | | | |
| East Sy Tel: (3 88 | irkville Rd rracuse, NY 13057 15) 432-5227 8-432-LABS (5227 gsgalson.com |) | — Phone No. Cell No Email Results t Email addre | o. : to : <u>Am</u> | ber Confe | er | e.com | | Ema P.O. No | lo.: <u>410-747-83</u> ail : <u>invoicing@</u> o. : <u>ODC 4920</u> rd : Card on Fi | phaseonline. 002-001 | COM r Credit Card | info. |
| Need Results By | : (surcharge) | 1 | | / : | Samples sub | omitted usin | g the FreePumpLoan™ | Program | Samples s | submitted using th | e FreeSamplingE | adges™Prog | ram |
| Stand | | Site Name : James | s K. Polk | | | Pro | ject : ACPS IAQ te | sting - 4920002 | | oled by : Karl F | ord | | |
| 4 Business D | | Comments : | | | | | | | | | | | |
|] 3 Business D | · | | | | | | | | | | | | |
| 2 Business D | | 1 | | | | | | | | | | | |
| Next Day by 6 | | List description of ind | lustry or Process | /interfer | rences prese | ent in sampl | ng area : | State samples we | re | Please indicate w | vhich OEL this da | ta will be used | d for : |
| Next Day by N | oon 150% | Dublic made | achaol | | | | | collected in (e.g., I | NY) | OSHA PEL | ACGIH TLV | Cal | OSHA |
| Same [| Day 200% | Public grade | school | | | | | VA | | 🔲 МЅНА | Other (specif | y): | |
| • | entification* f 20 Characters} | Date Sampled | Collection M | edium | Samp | e Volume le Time e Area* | Sample Units*: L, ml,min,in2,cm2,ft2 | Anal | ysis Reque | ested* | Method Refere | nce^ Process | ent Chromium (e.g., welding painting, etc.)* |
| P - Class 33 | | 09/09/21 | Sm Charcoal tubes | / 226-01 | 45.8 | | L | 4-Phenylcyclohe | | mod. NIOSH | 1501 | | |
| P - Multi Purpo | se | 09/09/21 | Sm Charcoal tubes | / 226-01 | 44.4 | | L | 4-Phenylcyclohe | xene | | mod. NIOSH | 1501 | |
| - Hall 53 | | 09/09/21 | Sm Charcoal tubes | / 226-01 | 46.0 | | L | 4-Phenylcyclohe | xene | | mod. NIOSH | 1501 | |
| P - Class 26 | | 09/09/21 | Sm Charcoal tubes | / 226-01 | 45.4 | | L | 4-Phenylcyclohe | xene | | mod. NIOSH | 1501 | |
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| <u></u> | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | |
| | | Ir routine/preferred met | had 16 is -1 | 6 m c 4 a l- | *ha m=*hc = | listed on th | COC unloss this have | | mathadia | a) listed on COC | | | |
| | | | | | | | | | | | | | |
| | | lyte with the option of a | | | | | required (only availabl | e for certain analyte | s - see SA | | | | : |
| hain of Custody | | rint Name/Signature | | • | Date | Time | | P | Print Nam | ne/Signature | | Date | Time |
| | Channing Jack | | ł | _ | 10/21 | 13:30 | Received by : | | | | | | |
| elinguished by : | ÷ | (rang | | | 18/21 | 12:00 | | α | ten | 700 | 1 | 112121 | 1242 |
| | | | | amples | received | after 3pm v | will be considered as | s next day's busir | ness | | | <i>*</i> ' | |



1

Chain of Custody Form for Subcontracted Analyses

| hase Separation Sci 630 Baltimore Natio altimore, MD 2122 hone: (410) 747-87 | onal Pike 8 | | Proj |). No. : ect Location ect Number | 21091314 Jakes K. Polk ES 4920002 | SGS 6601 | Samples Transferred To: SGS North America - NY 6601 Kirkville Road East Syracuse, NY 13057 | | | | |
|---|--|-----------------|-----------------|--|---|-------------|---|--------------|--|--|--|
| ax: (410) 788-8723 | | | Rep | ort To LOD |): No | Old S | SGS Galson Labs. t | sc | | | |
| or Questions or i | issues please contact: A | mber Confer | _ | | Due On :09/21/21 05:00 | Phon | Phone : 315-432-5227 | | | | |
| Lab Sample ID | Field Sample ID | Date Sampled | Time Sampled | Matrix | Analyses Required | Method | Type of Container | Preservative | | | |
| 21091314-001 | JP-Library | 09/09/21 | 00:00 | Air | 4-Phenylcyclohexene | VARIOUS | NONSC | NON | | | |
| 21091314-002 | JP-41 Class | 09/09/21 | 00:00 | Air | 4-Phenylcyclohexene | VARIOUS | NONSC | NON | | | |
| 21091314-003 | JP-22 Class/Band | 09/09/21 | 00:00 | Air | 4-Phenylcyclohexene | VARIOUS | NONSC | NON | | | |
| 21091314-004 | JP-Room 1 | 09/09/21 | 00:00 | Air | 4-Phenylcyclohexene | VARIOUS | NONSC | NON | | | |
| 21091314-005 | JP-Gym | 09/09/21 | 00:00 | Air | 4-Phenylcyclohexene | VARIOUS | NONSC | NON | | | |
| 21091314-006 | JP-Class 14 | 09/09/21 | 00:00 | Air | 4-Phenylcyclohexene | VARIOUS | NONSC | NON | | | |
| 21091314-007 | JP-Class 50 | 09/09/21 | 00:00 | Air | 4-Phenylcyclohexene | VARIOUS | NONSC | NON | | | |
| 21091314-008 | JP-Class 38 | 09/09/21 | 00:00 | Air | 4-Phenylcyclohexene | VARIOUS | NONSC | NON | | | |
| 21091314-009 | JP-Reception | 09/09/21 | 00:00 | Air | 4-Phenylcyclohexene | VARIOUS | NONSC | NON | | | |
| 21091314-010 | JP-Hall 107 | 09/09/21 | 00:00 | Air | 4-Phenylcyclohexene | VARIOUS | NONSC | NON | | | |
| 21091314-011 | JP-Hall 35 | 09/09/21 | 00:00 | Air | 4-Phenylcyclohexene | VARIOUS | NONSC | NON | | | |
| 21091314-012 | JP-Class 33 | 09/09/21 | 00:00 | Air | 4-Phenylcyclohexene | VARIOUS | NONSC | NON | | | |
| 21091314-013 | JP-Multi Purpose | 09/09/21 | 00:00 | Air | 4-Phenylcyclohexene | VARIOUS | NONSC | NON | | | |
| 21091314-014 | JP-Hall 53 | 09/09/21 | 00:00 | Air | 4-Phenylcyclohexene | VARIOUS | NONSC | NON | | | |
| 21091314-015 | JP-Class 26 | 09/09/21 | 00:00 | Air | 4-Phenylcyclohexene | VARIOUS | NONSC | NON | | | |
| Send Report | rables Required t Attn : reporting(| @phaseonline.cc | m MPS | | Perform Q.C. Send I | - | nvoicing@phasec | nline.com | | | |

| Comments : | | | | | | |
|---------------------------|-----------------|--------|-----------------------|-----------------------|-----------------------|------|
| Samples Relinquished By : | Date : 9 13 12 | Time: | Samples Received By : | Brett Grenert-Fischer | Brith Munut - Fischer | |
| Samples Relinquished By: | Date : | Time : | Samples Received By: | | | 0944 |
| Samples Relinquished By: | Date: Page 7 of | _ | erence:1 Generated:21 | | | |
| | | - Pa | ige 10 of 14 | Version 1.000 | | |

| PHASE |
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| SEPARATION |
| SCIENCE |
| |

Project Name: ACPS IAQ Testing PSS Project No.: 21091314

Any holding time exceedances, deviations from the method specifications, regulatory requirements or variations to the procedures outlined in the PSS Quality Assurance Manual are outlined below.

Matrix spike and matrix spike duplicate analyses may not be performed due to insufficient sample quantity. In these instances, a laboratory control sample and laboratory control sample duplicate are analyzed unless otherwise noted or specified in the method.

Sample Receipt:

All sample receipt conditions were acceptable.

NELAP accreditation was held for all analyses performed unless noted below. See www.phaseonline.com for complete PSS scope of accreditation.

21091314

| | SGS GALSON New Client? Report To* : P | | | | | | aration S | cience | | Invoice T | °*∶ <u>Phase S</u> | Separat | ion Scie | ence | |
|--|---|-----------------------------------|-------------------|------------------|-------------------|------------------|------------------------------------|---|-------------------------------------|----------------|---------------------------------------|-----------------|--------------|--------------------------|---|
| | | GAL20 | | | | | nore Natio MD 2122 | | | | | | | | |
| | | | Client Account | No.*: | | | | | | | | | | | |
| 6601 Kirkville Rd | | | | | | | | | | | • | | | | |
| | | yracuse, NY 13057 15) 432-5227 | | | | 0-747-87 | 70 | | | | No.: <u>410-747-8</u> | | | | |
| | | 38-432-LABS (5227 |) | Cell f | | | - | | ····· | | ail : <u>invoicing@</u> | | nline.com | | |
| | www.s | gsgalson.com | | Email Results | | | | | <u> </u> | | 0.: <u>ODC 492(</u> | | | | |
| | | | | Email addi | ess <u>: re</u> p | oorting@ | phaseonlii | ne.com | | Credit Ca | rd : 🔲 Card on F | ile | Call for Cre | dit Card I | nfo. |
| Need Results By: (surcharge) | | | | | | | | ng the FreePumpLoan™ | Program | Samples s | submitted using th | ne FreeSam | plingBadge | s™Progr | am |
| Standard 0% Site Name : James K. Polk ES | | | | | | | Pro | oject : ACPS IAQ te | esting - 492 | 0002 Samj | oled by: Karl F | ord | | | |
| 4 Business Days 35% Comments : | | | | | | | | <u>,</u> | | | | | | | |
| 3 Business Days 50% | | | | | | | | | | | | | | | |
| 2 Business Days 75% | | | | | | | | | | | | | | | |
| Next Day by 6pm 100% List description of industry or Process/interferences present in sampling area : | | | | | | | | | State sample | | Please indicate v | | | be used | for : |
| Next Day by Noon 150% Public grade school | | | | | | | | | collected in (| e.g., NY) | 🗹 OSHA PEL | . 🔲 ACGIH TLV | | Cal | OSHA |
| Same Day 200% | | | | | | | | | | | | Other (| specify): | | |
| Sample Identification* Date Sampled Collect (Maxmium of 20 Characters) | | | | | Aedium | Sam | le Volume ple Time ple Area* | Sample Units*: L, ml,min,in2,cm2,ft2 | | Analysis Reque | ested* | Method F | eference^ | Process (| ent Chromium e.g., welding painting, etc.)* |
| JP - | Library | | 09/09/21 | Sm Charcoal tube | s / 226-01 | 44.4 | | L | 4-Phenylcyc | lohexene | | mod. NIC | DSH 1501 | | |
| JP - | 41 Class | | 09/09/21 | Sm Charcoal tube | s / 226-01 | 48.4 | | L | 4-Phenylcyc | lohexene | | mod. NIC | OSH 1501 | | |
| JP - | 22 Class | Band | 09/09/21 | Sm Charcoal tube | s / 226-01 | 45.0 | | L | 4-Phenylcyc | lohexene | | mod. NIC | OSH 1501 | | |
| JP - | Room 1 | | 09/09/21 | Sm Charcoal tube | s / 226-01 | 5-01 43.2 L 4-Ph | | | 4-Phenylcyclohexene | | | mod. NIC | OSH 1501 | | |
| JP - | Gym | | 09/09/21 | Sm Charcoal tube | s / 226-01 | 44.4 | | L | 4-Phenylcyclohexene | | | mod. NIOSH 1501 | | | |
| JP - | Class 14 | | 09/09/21 | Sm Charcoal tube | s / 226-01 | 44.0 | | L | 4-Phenylcyclohexene mod. NIOSH 1501 | | | | | | |
| JP - | Class 50 | | 09/09/21 | Sm Charcoal tube | \$ / 226-01 | 49.0 | | L | 4-Phenylcyc | ohexene | | mod. NIC | SH 1501 | | |
| JP - | Class 38 | | 09/09/21 | Sm Charcoal tube | s / 226-01 | 47.4 | | L | 4-Phenylcyc | ohexene | - | mod. NIC | SH 1501 | | |
| JP - | Reception | | 09/09/21 | Sm Charcoal tube | 5 / 226-01 | 46.6 | | L | 4-Phenylcyc | ohexene | | mod. NIOSH 1501 | | | |
| JP - | Hall 107 o | na/1214 | 09/09/21 | Sm Charcoal tube | s / 226-01 | 43.6 | | L | 4-Phenylcyc | ohexene | | mod. NIC | SH 1501 | | |
| JP - Hall 35, 15 09/09/21 Sm Charcoal tu | | | | | | 47.2 | | L | 4-Phenylcycl | ohexene | · · · · · · · · · · · · · · · · · · · | mod, NIC | SH 1501 | | |
| AGalson Laboratories will subsititute our routine/preferred method if it does not match the method listed on the COC unless this box is checked: 🔽 Use method(s) listed on COC | | | | | | | | | | | | | | | |
| For n | For metals analysis: if requesting an analyte with the option of a lower LOQ, please indicate if the lower LOQ is required (only available for certain analytes - see SAG): | | | | | | | | | | | | | | |
| For c | For crystalline silica: form(s) of silica needed must be indicated (Quartz, Cristobalite, and/or Tridymite)* : | | | | | | | | | | | | | | |
| Chair | of Custody | Pri | nt Name/Signature | | 0 | Date | Time | | | Print Name | e/Signature | Т | Dat | e | Time |
| Relin | quished by : | Channing Jacks | on | | 09/ | 10/21 | 13:30 | Received by : | · | | | | | | |
| Relin | quished by : | Jed 6 | Krans | | 2/1 | 13/21 | 1246 | Received by : | N | th 1 | 505 | | 91131 | $\overline{\mathcal{M}}$ | 1247_ |
| | | | | | | | after 3pm v | vill be considered as elds may result in a d | next day's b | | | | | age_1_ | of _2_ |
| | | | | | | | Page | e 12 of 14 | | Version | .000 | | | | |

21091314

| | SGS | GALSO | New Client | | 66 | 30 Baltin | earation Senation MD 21228 | onal Pike | | Invoice T | [•] o*∶ <u>Phase S</u> | eparation Sc | ence | | | |
|---|--------------------|------------------------------------|-------------------------|-------------------|------------------|----------------|------------------------------------|---|---|--|-------------------------------------|----------------------|-------------|--|--|--|
| | 6601 | (irkville Rd | | _ | | | | | | | ····· | | | | | |
| | East S | yracuse, NY 13057 | | Phone No | .* : <u>41</u> (| 0-747-87 | 70 | | | Phone No.: 410-747-8770 | | | | | | |
| | | 15) 432-5227 38-432-LABS (5227) | | Cell N | | | | | | Email : <u>invoicing@phaseonline.com</u> | | | | | | |
| | | | | Email Results | | | | | | P.O. No. : ODC 4920002-001 | | | | | | |
| | ~~~~~ | sgsgalson.com | | Email addro | ess: rep | orting@ | phaseonlir | ne.com | | Credit Ca | rd : 🚺 Card on Fi | ile 🗌 Call for Cr | edit Card I | nfo. | | |
| | Need Results B | /: (surcharge) | | | 2 | Samples su | ubmitted usin | ig the FreePumpLoan™ | | | | | | | | |
| V | Stan | dard 0% | Site Name : James | s K. Polk | | | Pro | ject : ACPS IAQ te | esting - 49 | 20002 Samj | pled by : Karl F | ord | | | | |
| | 4 Business | Days 35% | Comments : | | | | | | | | | | | | | |
| | 3 Business | Days 50% | | | | | | | | | | | | | | |
| | 2 Business | Days 75% | _ | | | | | | | | | | | | | |
| | Next Day by | Spm 100% | List description of inc | lustry or Proces | s/interfe | rences pres | sent in sampl | ing area : | State samp | les were | Please indicate w | hich OEL this data w | ll be used | for : | | |
| | Next Day by N | loon 150% | Public grade | school | | | | | collected in | (e.g., NY) | 🗹 OSHA PEL | | | | | |
| | Same | Day 200% | | SCHOOL | | | | | VA 🗌 MSHA | | | Other (specify): | | | | |
| Sample Identification* Date Sampled Collectio | | | | | | Sam | le Volume ple Time ple Area* | Sample Units*: L, ml,min,in2,cm2,ft2 | Analysis Requested* | | | Method Reference^ | Process | ent Chromium (e.g., welding painting, etc.)* | | |
| JP - | Class 33 | | 09/09/21 | Sm Charcoal tubes | / 226-01 | 45.8 | | L | 4-Phenylcy | clohexene | | mod. NIOSH 150 | | | | |
| JP - | - Multi Purpo | ose | 09/09/21 | Sm Charcoal tubes | / 226-01 | 44.4 | | L. | 4-Phenylcy | clohexene | ······· | mod. NIOSH 1501 | | | | |
| JP - | Hall 53 | | 09/09/21 | Sm Charcoal tubes | s / 226-01 | 46.0 | | L | 4-Phenylcyclohexene | | | mod. NIOSH 1501 | <u> </u> | | | |
| JP - | Class 26 | | 09/09/21 | Sm Charcoal tubes | / 226-01 | 45.4 | | L | 4-Phenylcyclohexene | | | mod, NIOSH 1501 | 1 | | | |
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| ^Ga | Ison Laboratori | es will subsititute our | routine/preferred meth | nod if it does no | t match | the method | l listed on the | COC unless this box is | s checked: | Use method(s |) listed on COC | | | | | |
| For | metals analysis | if requesting an analy | te with the option of a | lower LOQ, ple | ase indi | cate if the lo | ower LOQ is i | required (only available | e for certain a | nalytes - see SA(| G): | | | | | |
| For | crystalline silica | : form(s) of silica need | ed must be indicated | Quartz, Cristoba | alite, an | d/or Tridym | nite)* : | | | | F. | | | | | |
| Chai | n of Custody | Prir | nt Name/Signature | | D | ate | Time | | | Print Name | e/Signature | Da | te | Time | | |
| Relir | quished by : | Channing Jackso | on | | 09/ | 10/21 | 13:30 | Received by : | | | | | | | | |
| Relir | quished by : | TedK | ranj | | 9/1 | 5/21 | 12:46 | Received by : | ••••••••••••••••••••••••••••••••••••••• | ain | PUM | 0/12 | 14 | 1242 | | |
| | | | * R | | | | | vill be considered as elds may result in a | | | ng processed. | | | of _2_ | | |



SCIENCE

Project Name: ACPS IAQ Testing PSS Project No.: 21091314

| Client Name | Total Environmental Concepts - | Lorto | Rec | eived By | Amber Cor | lfer | |
|--|---|------------|-----|--|---|---|------|
| Disposal Date | 10/18/2021 | | Dat | e Received | 09/13/2021 | 12:42:00 P | М |
| | | | Del | ivered By | Client | | |
| | | | | cking No | Not Applicat | ole | |
| | | | Loc | ged In By | Amber Cor | nfer | |
| Shipping Contai | ner(s) | | | , | | | |
| No. of Coolers | 0 | | | | | | |
| Custody Seal(s Seal(s) Signed | • | N/A N/A | | Ice Temp (deg Temp Blank | | | |
| Documentation COC agrees wi Chain of Custor | th sample labels? dy | Yes Yes | | Sampler Na MD DW Cei | | Ford | |
| Sample Containe | er | | | Custody Sea | al(s) Intact? | Not Applica | able |
| Intact? | Specified Analysis? | Yes Yes | | Seal(s) Sigr | ned / Dated | Not Applica | able |
| Labeled and La | bels Legible? | Yes | | | | | |
| Holding Time | | | | Total No. of | Samples Re | ceived 1 | 5 |
| All Samples Re | ceived Within Holding Time(s)? | Yes | | Total No. of | Containers I | Received 1 | 5 |
| Orthophosphor Cyanides Sulfide TOC, DOC (fiel TOX, TKN, NH3 VOC, BTEX (V0 Do VOA vials h | OA Vials Rcvd Preserved) ave zero headspace? | ollectio | | lq) lq) lq) lq) lq) lq) | H<2) H<2) H>12) H>9) H<2) H<2) H<2) | N/A N/A N/A N/A N/A N/A N/A | |
| • | l at least one unpreserved VOA v I with trip blanks) | /ial) | | (pł | H<2) | N/A N/A | |

Comments: (Any "No" response must be detailed in the comments section below.)

For any improper preservation conditions, list sample ID, preservative added (reagent ID number) below as well as documentation of any client notification as well as client instructions. Samples for pH, chlorine and dissolved oxygen should be analyzed as soon as possible, preferably in the field at the time of sampling. Samples which require thermal preservation shall be considered acceptable when received at a temperature above freezing to 6°C. Samples that are hand delivered on the day that they are collected may not meet these criteria but shall be considered acceptable if there is evidence that the chilling process has begun such as arrival on ice.

Samples Inspected/Checklist Completed By:

Date: 09/13/2021

PM Review and Approval:

NY Jackson

Amber Confer

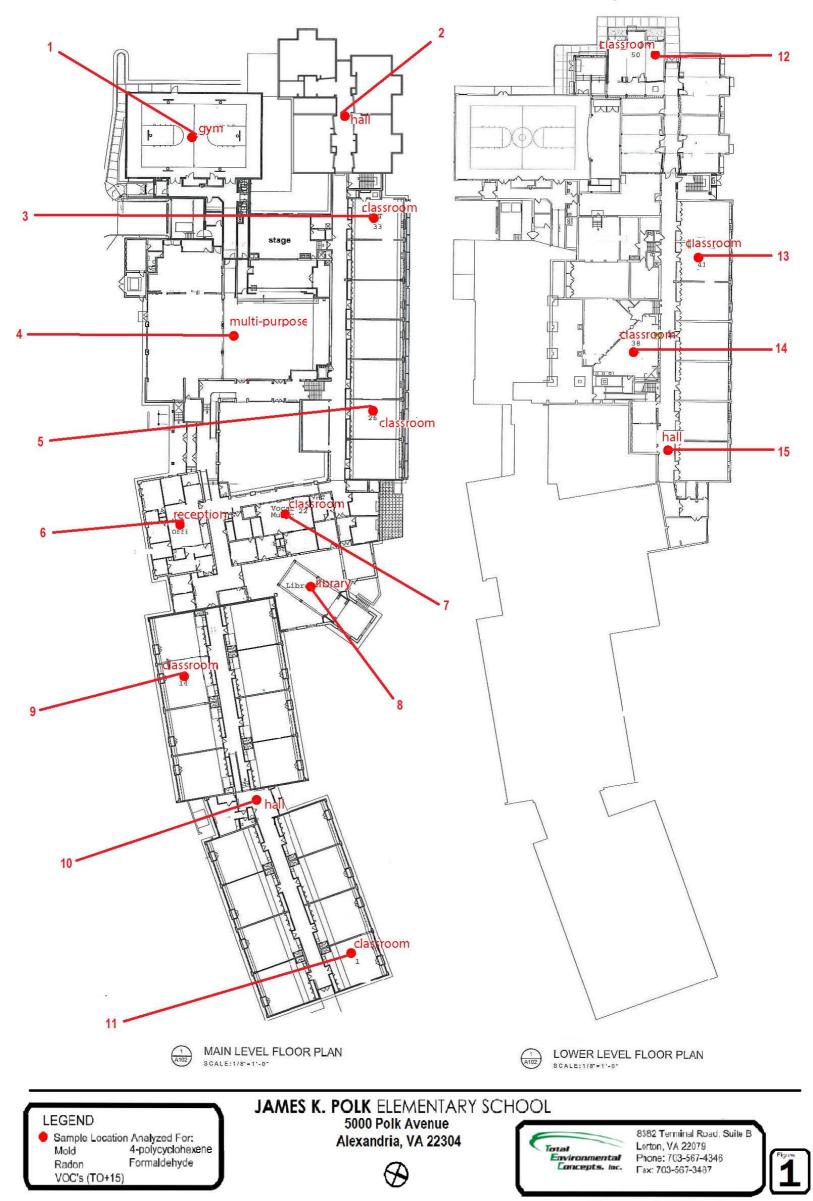
Lynn Jackson Page 14 of 14 Date: 09/13/2021

Version 1.000

| | SGS | GALSON | New Client? | Report To* : | | | | | Invoice T | ō*: | | | | |
|---|---------------------|---------------------------------|--------------------------|----------------------|--------------------|--|---|---------------|-------------|--------------------|--------------|--------------|--|-------|
| | | UALUUT | Client Account N | | | | | | - | | | | | |
| | 6601 Kir | kville Rd | | - | | | | | - | | | | | |
| | East Syı | acuse, NY 13057 | | Phone No.* : | | | | | Phone I | No.: | | | | |
| | | 5) 432-5227 -432-LABS (5227) | | Cell No. : | | | | | _ Em | ail : | | | | |
| | | . , | E | mail Results to : | | | | | P.O. N | lo. : | | | | |
| | www.sg | sgalson.com | | Email address: | | | | | Credit Ca | rd : 🗌 Card on Fi | ile 🗌 C | Call for Cre | dit Card Ir | nfo. |
| | Need Results By: | (surcharge) | | [| Samples | submitted usi | ng the FreePumpLoan™ | Program | Samples | submitted using th | e FreeSamp | olingBadge | es™Progra | am |
| | Standa | rd 0% | Site Name : | | | Pro | oject : | | Sam | pled by : | | | | |
| | 4 Business Da | ys 35% | Comments : | | | | | | | | | | | |
| | 3 Business Da | ys 50% | | | | | | | | | | | | |
| | 2 Business Da | ys 75% | | | | | | | | | | | | |
| | Next Day by 6p | m 100% | List description of indu | stry or Process/int | erferences pi | resent in samp | ling area : | State samp | | Please indicate w | /hich OEL th | is data wil | l be used | for : |
| | Next Day by No | on 150% | | | | | | collected in | (e.g., NY) | OSHA PEL | ACGIH | TLV | Cal | OSHA |
| | Same Da | ay 200% | | | | | | | | MSHA | Other (s | specify): | | |
| Sample Identification* Date Sampled Collect | | | | | ım Sa | nple Volume mple Time mple Area* | Sample Units*: L, ml,min,in2,cm2,ft2 | Analysis Requ | ested* | Method Re | eference^ | Process (| ent Chromium (e.g., welding painting, etc.)* | |
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| ^Ga | Ison Laboratories | will subsititute our | routine/preferred metho | od if it does not ma | I Itch the meth | nod listed on th | L ne COC unless this box i | s checked: | Use method(| s) listed on COC | | | | |
| For | metals analysis: i | f requesting an anal | yte with the option of a | lower LOQ, please | indicate if th | e lower LOQ is | s required (only availabl | e for certain | | | | | | |
| For | crystalline silica: | form(s) of silica need | ded must be indicated (0 | Quartz, Cristobalite | , and/or Trid | lymite)* : | | | | | | | | |
| Chai | in of Custody | Pri | nt Name/Signature | | Date | Time | | | Print Nan | ne/Signature | | Da | te | Time |
| <u> </u> | nquished by : | | - | | | | Received by : | | | - | | | | |
| <u> </u> | nquished by : | | | | | | Received by : | | | | | | | |
| | I | | * Re | | | • | will be considered as fields may result in a | - | | ing processed. | I | F | Page | of |

| | SGS | GALSON | New Client? | Report To* : | | | | | Invoice T | ō*: | | | | |
|---|---------------------|---------------------------------|--------------------------|----------------------|--------------------|--|---|---------------|-------------|--------------------|--------------|--------------|--|-------|
| | | UALUUT | Client Account N | | | | | | - | | | | | |
| | 6601 Kir | kville Rd | | - | | | | | - | | | | | |
| | East Syı | acuse, NY 13057 | | Phone No.* : | | | | | Phone I | No.: | | | | |
| | | 5) 432-5227 -432-LABS (5227) | | Cell No. : | | | | | _ Em | ail : | | | | |
| | | . , | E | mail Results to : | | | | | P.O. N | lo. : | | | | |
| | www.sg | sgalson.com | | Email address: | | | | | Credit Ca | rd : 🗌 Card on Fi | ile 🗌 C | Call for Cre | dit Card Ir | nfo. |
| | Need Results By: | (surcharge) | | [| Samples | submitted usi | ng the FreePumpLoan™ | Program | Samples | submitted using th | e FreeSamp | olingBadge | es™Progra | am |
| | Standa | rd 0% | Site Name : | | | Pro | oject : | | Sam | pled by : | | | | |
| | 4 Business Da | ys 35% | Comments : | | | | | | | | | | | |
| | 3 Business Da | ys 50% | | | | | | | | | | | | |
| | 2 Business Da | ys 75% | | | | | | | | | | | | |
| | Next Day by 6p | m 100% | List description of indu | stry or Process/int | erferences pi | resent in samp | ling area : | State samp | | Please indicate w | /hich OEL th | is data wil | l be used | for : |
| | Next Day by No | on 150% | | | | | | collected in | (e.g., NY) | OSHA PEL | ACGIH | TLV | Cal | OSHA |
| | Same Da | ay 200% | | | | | | | | MSHA | Other (s | specify): | | |
| Sample Identification* Date Sampled Collect | | | | | ım Sa | nple Volume mple Time mple Area* | Sample Units*: L, ml,min,in2,cm2,ft2 | Analysis Requ | ested* | Method Re | eference^ | Process (| ent Chromium (e.g., welding painting, etc.)* | |
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| ^Ga | Ison Laboratories | will subsititute our | routine/preferred metho | od if it does not ma | I Itch the meth | nod listed on th | L ne COC unless this box i | s checked: | Use method(| s) listed on COC | | | | |
| For | metals analysis: i | f requesting an anal | yte with the option of a | lower LOQ, please | indicate if th | e lower LOQ is | s required (only availabl | e for certain | | | | | | |
| For | crystalline silica: | form(s) of silica need | ded must be indicated (0 | Quartz, Cristobalite | , and/or Trid | lymite)* : | | | | | | | | |
| Chai | in of Custody | Pri | nt Name/Signature | | Date | Time | | | Print Nan | ne/Signature | | Da | te | Time |
| <u> </u> | nquished by : | | - | | | | Received by : | | | - | | | | |
| <u> </u> | nquished by : | | | | | | Received by : | | | | | | | |
| | I | | * Re | | | • | will be considered as fields may result in a | - | | ing processed. | I | F | Page | of |

Appendix F: Sampling Locations



Appendix G: Photographs





James K Polk, Library

James K Polk, Cafetorium



James K Polk, Band Room



James K Polk, Classroom



James K Polk, Gym



James K Polk, Hallway